

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

ADAMS Edition
6-66

NATIONAL

A
G
R
I
C
U
L
T
U
R
A
L



LIBRARY

1. 98

Ag 84

V. 7-9

pl. 1958-

pl. 1961

AGRICULTURAL Research

INDEX OF VOLUMES 7,8,9

July 1958 - June 1961

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY
RECEIVED

JUN 7 1973

PROCUREMENT SECTION
Alphabetical Serial File

U. S. DEPARTMENT OF AGRICULTURE

■ **AGRICULTURAL RESEARCH** reports on the problems and progress of research done by USDA scientists and cooperators to improve agricultural production, utilization, and marketing; on closely related regulatory activities that grow out of research; and on broad policies connected with such work. The magazine aims to provide accurate, readable information and interpretations of the latest and most significant developments to persons doing agricultural research or working with farmers.

Advisory committee—see Committee, Advisory
 Aerosol kills plane-riding insects. Feb. 1961, p. 14
 African red tick. June 1961, p. 10
 African swine fever test. Feb. 1961, p. 11
Agricultural Research index prepared. May 1959, p. 16
 Air pollution:
 Ozone injures tobacco. Mar. 1959, p. 8
 Alfalfa:
 Alfalfa weevil, wasp predator. June 1961, p. 5
 Alkali bees, shipping. Feb. 1960, p. 14
 Aphid-resistant. July 1959, p. 16; Apr. 1961, p. 13
 Carotene stabilizing. Oct. 1959, p. 15
 Improves hog carcasses. Jan. 1960, p. 13
 Nematode resistance pays. Aug. 1959, p. 15
 Pollen storage method. Nov. 1960, p. 16
 Pollinators, protecting. Aug. 1958, p. 8
 Poultry needs. Aug. 1959, p. 13
 Utah Synthetic C variety. Aug. 1960, p. 15
 Almonds, breeding smaller. Aug. 1959, p. 14
 Amino acids:
 New, in bulbs. Nov. 1959, p. 15
 Wheat flour contains. July 1959, p. 15
 Amo-1618, plant-growth effect. Apr. 1961, p. 10
 Amylose-rich corn. June 1959, p. 8
 Analog computers aid tillage study. June 1961, p. 16
 Animal disease—see Disease, animal
 Animal disease laboratory head named. Mar. 1959, p. 15
 Animal husbandry changes forecast. Apr. 1961, p. 2
 Animal quarantine—see Quarantine, animal
 Antibiotic:
 Aureomycin reduces scours in calves. June 1959, p. 14
 Bee disease combatted. May 1961, p. 14
 Phleomycin vs. snap bean rust. June 1961, p. 11
 Antioxidant:
 Preserves walnuts. Aug. 1958, p. 6
 Prevents mink disease. July 1960, p. 10
 Aphids:
 Resistant alfalfa. July 1959, p. 16; Apr. 1961, p. 13
 Sprayer duster kills. Feb. 1959, p. 11
 Systemics protect lilies. May 1961, p. 15
 Thimit fumes kill. July 1959, p. 15
 Spread yellow-dwarf virus. Dec. 1960, p. 10
 APO, cotton-finishing chemical. Feb. 1959, p. 14
 Apparel—see Clothing
 Apples:
 Cell structure quality key. Feb. 1960, p. 8
 Commercial comeback in Southeast sought. Dec. 1960, p. 7
 Hormones increase off-year set. Mar. 1959, p. 3
 Juice, superconcentrated apple. Feb. 1959, p. 16
 Red light stimulated reddening. Nov. 1959, p. 5
 Sevin thins apple blossoms. May 1961, p. 3
 Systemics curb tree mites. Dec. 1959, p. 16
 Apricots, hardy test seedlings. Sept. 1959, p. 15
 Arboretum opens Fern Valley. Aug. 1960, p. 16
 Arid-area sun decomposes herbicides. July 1960, p. 15
 Arkansas, white-fringed beetle in. Nov. 1959, p. 15
 Asphalt holds mulch. Feb. 1961, p. 5
 Atomic—see Radiation

Attractants. Feb. 1959, p. 3; Dec. 1959, p. 2
 Aureomycin cuts scours in calves. June 1959, p. 14

See also Antibiotics

Automation:

Bin unloader. Oct. 1958, p. 8
 Blueberry harvest. Oct. 1959, p. 7
 Cherry harvesting. July 1958, p. 7; Jan. 1961, p. 8
 Computers aid tillage studies. June 1961, p. 16
 Cotton cleaner. Feb. 1960, p. 10; Mar. 1960, p. 10; May 1960, p. 11
 Cotton, granular card saves. May 1959, p. 6
 Cotton harvest timesaver. Aug. 1960, p. 5
 Cottonseed, belt cleans. Jan. 1960, p. 10
 Dairies, engineering for large. Aug. 1959, p. 4
 Dairy records. Dec. 1958, p. 8
 Fruit-tree shaker. Oct. 1958, p. 6
 Hog raising. Oct. 1958, p. 15
 Plum-picking machine. Jan. 1961, p. 8
 Poultry farm. June 1960, p. 8
 Pruning machine for fruit trees. Oct. 1960, p. 3
 Quality, better tests. May 1960, p. 8
 Raspberry-picking aid. Dec. 1958, p. 14
 Seed-potato cutter, new. June 1959, p. 15
 Silage unloaders, small farm. Nov. 1959, p. 10
 Silo, unloader for horizontal. Sept. 1960, p. 11
 Small tree-fruit harvesting. Feb. 1959, p. 10
 Sugarcane harvest tips. Dec. 1960, p. 15
 Tobacco, aromatic, electric curing. Oct. 1959, p. 10
 Tractors, July 1959, p. 7; Jan. 1961, p. 16
 Tractor-sprayer, controls weeds. Oct. 1960, p. 13
 See also Labor saving

Avian leukosis study. Nov. 1959, p. 11
 Avocado product stabilized. Nov. 1958, p. 16
 Awards. July 1958, p. 3, 16; Mar. 1959, p. 16; Apr. 1959, p. 3, 11; June 1959, p. 3, 16; July 1960, p. 3; Apr. 1961, p. 16
 Azaleas, salt injures. May 1961, p. 12

B

Bacteria:

Kill tobacco worms. Feb. 1961, p. 15
 Bloat and ruminal. Nov. 1959, p. 14
 Soilborne disease curbs. Aug. 1960, p. 8
 Bananas, oil kills fungi on. May 1959, p. 11

Barley:

Hull-less variety. Sept. 1959, p. 7
 Hybrid seed. June 1961, p. 6

Beadle, George, lecture. Feb. 1961, p. 2

Beans:

Antibiotic curbs snapbean rust. June 1961, p. 11
 Curly-top carrier. May 1960, p. 15
 Downy mildew fungicide. Apr. 1961, p. 5
 Great Northern 1140 variety. Apr. 1960, p. 15
 Lygus control on limas. Sept. 1958, p. 16
 Mildew-resistant lima. Sept. 1959, p. 16
 New virus injures peas, beans. Sept. 1958, p. 6
 Northeast bean industry aid. Apr. 1960, p. 11
 Planting for seedling emergence. Oct. 1960, p. 10
 Virus disease. Sept. 1958, p. 11

Beef:

- Cooking methods. Jan. 1960, p. 13
- Production efficiency increased. Sept. 1959, p. 3; July 1960, p. 2

See also Cattle, beef; Meat

Bees:

- Alkali bees. Aug. 1958, p. 8
- Alkali bees, shipping. Feb. 1960, p. 14
- Antibiotics combat diseases. May 1961, p. 15

Beetle controls Klamath weed. Sept. 1958, p. 15

Beltsville, Khrushchev visits. Nov. 1959, p. 16

Bentonite clay retards forest fires. July 1960, p. 15

Bermudagrass winterkill. Dec. 1959, p. 15

Beta-carotene process improved. June 1961, p. 12

BHT prevents steatitis in mink. July 1960, p. 10

Biochemistry. Jan. 1961, p. 2

See also Biology, basic research

Biological control:

- Bacterium kills tobacco worms. Feb. 1961, p. 15
- Beetle controls Klamath weed. Sept. 1958, p. 15
- Biological approach. Dec. 1959, p. 2; Mar. 1960, p. 9
- Cane borer, parasites curb. Jan. 1959, p. 6
- Fire ant, better weapons. June 1959, p. 6
- Fungi control fusarium root rot. Apr. 1960, p. 11
- Fungus kills nematodes. Nov. 1960, p. 11
- Insects and ecosystems. Dec. 1958, p. 3
- Lure for male gypsy moth. July 1960, p. 16
- Moth eats tansy ragwort. Jan. 1960, p. 12
- Parasites control grasshoppers. May 1960, p. 10
- Parasites vs soilborne diseases. Aug. 1960, p. 8
- Predators vs spider mites. May 1961, p. 8
- Soilborne disease curbs studied. Aug. 1960, p. 8
- Sterilant. Sept. 1959, p. 12
- Sterile-male screwworm control. July 1960, p. 4; Oct. 1960, p. 15—See also Screwworm
- Virus may control mite. June 1959, p. 15

Biology, basic research:

- Biological science progress. June 1959, p. 2; Dec. 1960, p. 16
 - DNA, RNA studies. Feb. 1961, p. 2
 - DNA, salinity and plant growth. Nov. 1960, p. 7
 - Electron, secret of biochemistry. Jan. 1961, p. 2
- See also Genetics

Blacklight lures chafer beetle. Jan. 1959, p. 15

Blanching, enzyme-activity test. Oct. 1958, p. 5

Bleaching cottonseed oil. Feb. 1961, p. 16

Blight-resistant pears. Sept. 1960, p. 16

Bloat and ruminal bacteria. Nov. 1959, p. 14

Blossom thinner and insecticide. May 1961, p. 3

Blueberries:

- Garden Blue variety. Mar. 1959, p. 16
- Mechanized harvest. Oct. 1959, p. 7
- Menditoo. Mar. 1959, p. 16
- Stunt virus in wild berries. July 1958, p. 16
- Woodard, for deep South. Mar. 1961, p. 15

Boll weevil. June 1959, p. 14; June 1961, p. 16

Borden awards. Apr. 1959, p. 11

Bread:

- Dry milk tested. July 1958, p. 10

Bread—Continued

Introduced rye. May 1959, p. 15

Wheat holds quality. Feb. 1959, p. 15

Breeding, animal:

Ultrasonics aid. Dec. 1958, p. 15

See also individual animal

Breeding, plant—see individual plant

Breeding, poultry:

Chicken-turkey hybrid. Jan. 1961, p. 10

Eggs, more from breeding research. Dec. 1960, p. 3

See also Poultry

Broiler—see Poultry

Brooder—see Poultry

Brucellosis:

Eradication. Aug. 1958, p. 15; Sept. 1958, p. 16; July 1959, p. 15; Jan. 1960, p. 15; June 1960, p. 16; Aug. 1960, p. 11; Oct. 1960, p. 15; Dec. 1960, p. 15

Regulation on cattle movement changed. June 1959, p. 14

Research. Sept. 1960, p. 2

Tagging. May 1959, p. 8

Test. Jan. 1961, p. 10; June 1961, p. 13

Bruised, chopped silage better. Dec. 1959, p. 16

Bud blight, soybean seeds carry. Nov. 1959, p. 6

Budworms, bacterium kills. Feb. 1961, p. 15

Buildings—see Housing

Bunker silos:

Cover saves feed. May 1961, p. 5

Economical. Dec. 1958, p. 15

Save feed value. Feb. 1960, p. 7

See also Silage; Silo

C

Calories, less, more food variety. Aug. 1959, p. 12

Calves—see Cattle; Cattle, dairy; Cattle, beef

Camellias, salt injuries. May 1961, p. 12

Cancer:

Cancer Society backs poultry study. Nov. 1959, p. 11

Electron involved in cancer. Jan. 1961, p. 2

Poultry cancer research advanced. Aug. 1960, p. 3

Resistance, some chickens inherit. Nov. 1960, p. 12

Candy:

Almonds, breeding smaller. Aug. 1959, p. 14

Chocolate coating. Feb. 1959, p. 14

Chocolate, heat-resistant. Dec. 1958, p. 11

Peppermint, wilt-resistant, sought. Apr. 1961, p. 11

Carotene:

Alfalfa carotene, stabilizing. Oct. 1959, p. 15

Beta-carotene yields increased. June 1961, p. 12

Carrots, dehydrated. June 1961, p. 16

Catenaria vermicola fungus kills nematodes. Nov. 1960, p. 11

Cattle:

Brucellosis—see Brucellosis

Calves, diets, and parasites. Aug. 1959, p. 11

Cattle fly spreads rapidly. Oct. 1959, p. 16

Cattle grub systemic, DOWCO-109. Feb. 1959, p. 15

Coccidia in livestock. Oct. 1959, p. 13

Crooked calf disease. June 1960, p. 12

Disease—see individual diseases, parasites

Eartag number plan popular. Feb. 1960, p. 16

Cattle—Continued

- Face fly controls sought. Dec. 1960, p. 5
- Fescue palatability cattle-tested. Aug. 1960, p. 12
- Johne's disease vaccine. Mar. 1960, p. 13
- Louisiana range evaluated. Mar. 1959, p. 15
- Red tick, fever carrier in Florida. Dec. 1960, p. 16
- Rinderpest. Oct. 1960, p. 6
- Roughage, choosing cattle. June 1959, p. 11
- Round worms, resting pasture reduces. Jan. 1959, p. 11
- Screwworm restrictions lifted. Mar. 1960, p. 15
- Shipping fever virus isolated. Oct. 1959, p. 15
- Tanning, new method. Nov. 1959, p. 12
- Urinary calculi, chemicals reduce. June 1960, p. 13
- Woodland pasture poor fare. July 1958, p. 14
- Worms fewer in milk-fed calves. Aug. 1958, p. 11

Cattle, beef:

- Aureomycin cuts scours in calves. June 1959, p. 14
- Breeding tender beef. Feb. 1960, p. 6
- Bruises cut profits. Nov. 1959, p. 13
- Feeder calves certified. Apr. 1959, p. 12
- Feeders, aid for pricing. Feb. 1961, p. 10
- Feedlot bloat. Nov. 1959, p. 14
- Herd improvement. July 1960, p. 2
- Nutrition affects reproduction. Aug. 1958, p. 12
- Production efficiency. Sept. 1959, p. 3

Cattle, dairy:

- Crossbreeding studies. July 1958, p. 15; Apr. 1961, p. 7
- Dairy records mechanized. Dec. 1958, p. 8
- Dairy type. Mar. 1961, p. 13
- DHIA cows. Apr. 1960, p. 15; Apr. 1961, p. 15
- Engineering to save labor. Aug. 1959, p. 4
- Heat tolerance. Mar. 1961, p. 12
- Herd improvement program. Mar. 1959, p. 15; Feb. 1960, p. 16
- Herd improvement registry. Mar. 1960, p. 15
- Herringbone milking parlors. May 1959, p. 7
- Intake higher if silage wilted. May 1960, p. 16
- Longevity vs productivity. Jan. 1960, p. 14
- Magnesium needs of calves. July 1959, p. 12
- Milk production, environment affects. Mar. 1959, p. 13
- Milk production records pay. Oct. 1960, p. 5
- Roughage for calves. June 1959, p. 11
- Starr-millet pasture good. Aug. 1960, p. 7
- States adopt eartag system. Feb. 1960, p. 16
- Systemic face-fly control. Mar. 1961, p. 5
- Upgrading herds. Jan. 1961, p. 11
- Weather and ketosis. Sept. 1960, p. 12
- See also* Milk

CCC plant growth effect. Apr. 1961, p. 10

Cereals—*see* Grain, individual cereal crops

Chafer beetle lure. Jan. 1959, p. 15

Cheese:

- Making cheddar. Jan. 1959, p. 10
- Public Law 480 research grant. Aug. 1959, p. 16
- Starter cultures protected. July 1959, p. 11

Chelate corrects citrus chlorosis. Sept. 1959, p. 11

Chemicals:

- Advances against insects. Feb. 1959, p. 3
- And foods. Mar. 1960, p. 2
- Culling unwanted trees. May 1959, p. 12

Chemicals—Continued

Farm chemicals require care. Oct. 1960, p. 2

See also Fertilizers; Fungicides; Herbicides; Pesticides; Utilization

Cherries:

- Better for Northwest. Feb. 1960, p. 11
- Cherry, plum, sesame fungi kin. Sept. 1960, p. 15
- Harvest, mechanized. Jan. 1961, p. 8
- Harvest, net speeds. July 1958, p. 7
- Preventing damage in. Aug. 1960, p. 15
- Varieties, Chenook, Ranier. Nov. 1960, p. 14

Chickens—*see* Poultry

Chocolate:

- Coating, dried. Feb. 1959, p. 14
- Heat resisting. Dec. 1958, p. 11

Cholesterol, insect. Feb. 1961, p. 8

Chromatography, grading potential. May 1960, p. 8

Chrysanthemums:

- Compact. July 1958, p. 15
- Regulating growth. May 1959, p. 14

Cigar:

- New filler tobaccos. June 1961, p. 15
- Testing cigar smoke. Sept. 1959, p. 10

Cinnabar moth eats weed. Jan. 1960, p. 12

CIPC stops potato sprouting. Nov. 1960, p. 15

Citrus:

- Chlorosis, chemical corrects. Sept. 1959, p. 11
- DBCP controls nematode. June 1959, p. 12
- Florida growers to study. Feb. 1960, p. 15
- Nematode resistance sought. Sept. 1958, p. 7
- Nematode-resistant rootstocks. Jan. 1961, p. 15
- Tangerines, Robinson, Osceola, Lee. Feb. 1960, p. 15
- Virus may control red mite. June 1959, p. 15
- See also* individual fruit

Clarkson, M. R., ARS Associate Administrator. Dec. 1959, p. 15

Clay retards forest fires. July 1960, p. 15

Clothing:

- Cotton, treated, repels water. Mar. 1960, p. 11
- Device measures cotton crimp. Aug. 1959, p. 10
- Drip-dry for dry cleaner. July 1958, p. 16
- Felts, better way to make. Nov. 1960, p. 16
- Flame-resistant recipe. Oct. 1958, p. 10
- For handicapped women. July 1960, p. 8
- Knitwear, standard sizing. Aug. 1958, p. 13
- Tannage. Nov. 1959, p. 12
- Tanning affects leather shrinkage. July 1959, p. 10
- Wash and wear. Feb. 1959, p. 14
- Wool, better fabrics. Jan. 1960, p. 15
- Wool creases made to last. Oct. 1960, p. 16

Clover:

- Crimson clover yields. Apr. 1960, p. 11
- Crimson clover. Sept. 1958, p. 12
- Gypsum increases rose clover yield. June 1960, p. 7
- Red clover, long-lived variety sought. Oct. 1959, p. 8
- White sweetclover, first nonbitter. June 1961, p. 15

Clubroot, cabbage resists. Feb. 1961, p. 15

Coating materials:

- Grain starch coatings. Jan. 1961, p. 13
- Linseed paints. Jan. 1961, p. 12
- Tough, flexible. Sept. 1959, p. 5

Coccidiosis:

- Antibiotics. Dec. 1958, p. 7 (*See also* correction Apr. 1959, p. 16)
- Livestock. Oct. 1959, p. 13
- Progress against. Apr. 1961, p. 6
- Cochran, L. C., heads fruit, nut research. May 1959, p. 15
- Colorimeter grades tomato juice. May 1960, p. 9
- Committee, advisory. Dec. 1958, p. 15; Oct. 1959, p. 16; Oct. 1960, p. 16

Committee, policy:

- Policy committee, new members. Dec. 1959, p. 16
- Policy committee, report. June 1960, p. 15
- Committee, research evaluation (CORE). Feb. 1960, p. 2
- Computers aid tillage studies. June 1961, p. 16
- Concrete, mixing measure. Jan. 1961, p. 16

Conservation:

- Conservation benches save water. June 1961, p. 14
- Cost, gradual start helps. Dec. 1958, p. 13
- Evaporation losses high. Apr. 1960, p. 16
- Level irrigation saves water. July 1959, p. 6
- New laboratory. Jan. 1960, p. 16
- Optimum water year. Apr. 1959, p. 8
- Prefab liner for irrigation canals. Jan. 1960, p. 6
- Rubber sheet saves dryland water. Mar. 1961, p. 6
- Underground reservoirs, recharging. Jan. 1959, p. 8
- Water conservation research. June 1961, p. 2
- Construction, wall strengthening method. Jan. 1960, p. 16

Consumer:

- Consumer cues food research. Nov. 1958, p. 2
- Food dollar, more for processing. Sept. 1960, p. 14
- Research serves consumer. Apr. 1959, p. 2

Consumption. Mar. 1961, p. 14

- Container, one-bale seed cotton. Aug. 1960, p. 5
- Containers, seed-packing materials. Aug. 1958, p. 4
- Contract, land, farm sales increase. June 1959, p. 10
- Control, biological—*see* Biological control
- Cooked garbage, good hog feed. July 1960, p. 11
- Cooking broccoli. June 1960, p. 14
- Cooperative research. Sept. 1959, p. 2
- Co-ops, bargaining. Mar. 1959, p. 4
- Cordage crop, sansevieria. Aug. 1958, p. 15
- CORE Report. Feb. 1960, p. 2, 3

Corn:

- Amylose-rich hybrids. June 1959, p. 8
- Borers. Aug. 1959, p. 16; Sept. 1959, p. 14. (*See also* correction. Nov. 1959, p. 15); July 1960, p. 15
- Cytoplasm alters genetic effect. Apr. 1959, p. 5
- Erosion, reducing cornfield. Feb. 1960, p. 12
- Evaporation from corn plots high. Apr. 1960, p. 16
- Fertilizing. Oct. 1959, p. 11; July 1960, p. 7
- Genetic changes. July 1959, p. 3
- Growth linked to air movement. Feb. 1961, p. 6
- Improving. Oct. 1960, p. 8
- Mulches may keep manganese from. Feb. 1961, p. 13
- Niacin-binding substance studied. Nov. 1960, p. 14
- Planting. Mar. 1959, p. 6; Oct. 1960, p. 10
- Research. Sept. 1960, p. 8
- Rotation, corn and bermudagrass. Dec. 1959, p. 15
- Simazin kills weeds. Apr. 1959, p. 16
- Starch derivative. Jan. 1959, p. 15; May 1960, p. 13

Corn—Continued

- Subsoiling doesn't increase yields. Jan. 1960, p. 6
 - Sugarcane borer, cornfield pest. Oct. 1958, p. 16
 - Surfactant affects herbicide. June 1961, p. 3
- ## Cotton:
- Baling for temporary storage. Feb. 1961, p. 7
 - Blight control. Jan. 1960, p. 16
 - Carding improvement. May 1959, p. 6
 - Cleaning. Feb. 1960, p. 10; Mar. 1960, p. 10; May 1960, p. 11
 - Electricity improves seed, fiber. Dec. 1959, p. 3
 - Flame cultivation. Aug. 1959, p. 15
 - Fungi, saving young plants. Nov. 1958, p. 10
 - Fungicide controls cotton rust. June 1961, p. 11
 - Germinate, helping damaged seed. June 1959, p. 5
 - Ginning, rapid flight-bar. Jan. 1959, p. 7
 - Ginning, roller bar for long fiber. Mar. 1959, p. 5
 - Gossypol, breeding out. Apr. 1959, p. 6
 - Harvest time-saver. Aug. 1960, p. 5
 - Improved. Mar. 1961, p. 8
 - Micronaire gages fiber maturity. June 1961, p. 7
 - Nematode control. Sept. 1959, p. 6
 - Nutgrass, cotton and tillage kill. Oct. 1958, p. 15
 - Opener-cleaner. Apr. 1959, p. 15
 - Planting guide, soil temperature. Oct. 1960, p. 12
 - Quality tests. May 1960, p. 8
 - Rex made good. Apr. 1959, p. 15
 - Seed, belt cleans. Jan. 1960, p. 10
 - Seed damage weakens roots. Apr. 1960, p. 13
 - Test plants not damaged. May 1960, p. 15
- ## Cotton insects:
- Boll weevil. June 1959, p. 14; June 1961, p. 16
 - Control. Aug. 1959, p. 8
 - Research laboratory. July 1960, p. 14
 - Resistance sought. Nov. 1960, p. 3
- ## Cotton utilization:
- Cottonseed oil, improved bleaching. Feb. 1961, p. 16
 - Crimp. Feb. 1959, p. 6; Aug. 1959, p. 10
 - Drip-dry process. July 1958, p. 6
 - Fabric study. July 1958, p. 16
 - Linters strengthen paper. Sept. 1958, p. 10
 - Outdoor, weather-resistant fabric. June 1959, p. 15
 - Rug finishes, soil-retardant. May 1959, p. 15
 - Wash-wear. Feb. 1959, p. 14
 - Water-repellancy treatment. Mar. 1960, p. 11
 - Cottonseed oil, improved bleaching. Feb. 1961, p. 16
 - Coumarin, new clover has little. June 1961, p. 15
 - Cricket, Mormon, control urged. Apr. 1961, p. 15
 - Crimp, importance. Feb. 1959, p. 6
 - Crimp, measuring cotton. Aug. 1959, p. 10
 - Crimson clover—*see* Clover
 - Crop production potential, 1975. Feb. 1961, p. 3
 - Crops—*see* Plants; individual Crop
 - Crossbred dairy cattle. Apr. 1961, p. 7
 - Crown-rust-resistant oats sought. July 1960, p. 6
 - Crown-rust-resistant ryegrass. Aug. 1959, p. 5
 - Curculio, new control. June 1960, p. 15
 - Curing, bright leaf tobacco, bulk. Dec. 1959, p. 6
 - Cyprex curbs rose spot. July 1959, p. 16
 - Cytoplasm in corn. Apr. 1959, p. 5

D

Dairy:

- Congress, 6th International. Apr. 1961, p. 15
- Crossbreeding studies. July 1958, p. 15
- Dairy Herd Improvement Association. Mar. 1959, p. 15; Feb. 1960, p. 16; Apr. 1960, p. 15
- Dairy type vs. milk production. Mar. 1961, p. 13
- Herd Improvement Registry. Mar. 1960, p. 15
- Milk cooler heat used. Mar. 1959, p. 11
- Roughage for calves. June 1959, p. 11
- States adopt eartag system. Feb. 1960, p. 16
- See also Cattle, dairy; Milk

Dairy Herd Improvement Association:

- DHIA. Mar. 1959, p. 15; Feb. 1960, p. 16
- DHIA cows give bigger profits. Apr. 1960, p. 15; Apr. 1961, p. 15

DBCP controls root-knot nematode. Sept. 1959, p. 6

DBCP vs. citrus nematode. June 1959, p. 12

DDT kills peach tree borer. May 1961, p. 15

Decontamination—see Radiation

Deep-furrow planting. Oct. 1958, p. 13

Deeper planting, more sugarcane. Oct. 1960, p. 12

Defoliation and soybean pod, leaf loss. July 1958, p. 13

Dehydration:

- Dehydrator accepted commercially. Jan. 1959, p. 15
- Dried whole milk nearer. Nov. 1958, p. 3
- Foam-mat dried tomato juice. Dec. 1960, p. 11
- Foam-mat drying. Dec. 1959, p. 8
- Hay wafers. Apr. 1960, p. 6
- Potato flakes improved. Nov. 1958, p. 16
- Solar energy dries crops. May 1960, p. 14
- Vegetables new way to dehydrate. June 1961, p. 15

Denta, nonbitter white sweetclover. June 1961, p. 15

Deoxyribonucleic acid:

- DNA, RNA advance life studies. Feb. 1961, p. 2
- DNA, salinity and plant growth. Nov. 1960, p. 7
- Depressed areas, better resource use. Sept. 1960, p. 3
- Detergent aids plant protein study. Sept. 1959, p. 15

Diet:

- Diet planning aid. Jan. 1961, p. 14
- Food, 1959 Yearbook of Agriculture. Nov. 1959, p. 10
- Infants need linoleic acid. July 1959, p. 13
- Ration for lean hogs. Aug. 1960, p. 10
- Under- and over-nutrition studied. Mar. 1961, p. 2
- U.S. diets changing. Aug. 1959, p. 12
- See also Food; Feed; Nutrition

Diethyltoluamide—insect repellent. Feb. 1959, p. 4

Disease, animal:

- African horse sickness. Feb. 1961, p. 15
- African swine fever. Feb. 1961, p. 11
- Antioxidants prevent mink disease. July 1960, p. 10
- Brucellosis—see Brucellosis
- Cancer society backs poultry study. Nov. 1959, p. 11
- Coccidiosis—see Coccidiosis
- Crooked calf disease. June 1960, p. 12
- Foot-and-mouth virus. June 1960, p. 16
- Johne's disease vaccine. May 1960, p. 13
- Ketosis, weather influences. Sept. 1960, p. 12
- Livestock foes. June 1961, p. 8
- Meat production, extra. Sept. 1959, p. 4

Disease, animal—Continued

- More animals need more control. Nov. 1960, p. 2
- Red tick, fever carrier in Florida. Dec. 1960, p. 16
- Rinderpest. Oct. 1960, p. 6
- Screwworm quarantine. Nov. 1959, p. 15
- Shipping fever virus isolated. Oct. 1959, p. 15
- Urinary calculi, chemicals reduce. June 1960, p. 13
- Vesicular Exanthema (VE). Dec. 1959, p. 11; July 1960, p. 11

Disease, plant:

- Biological control for soilborne. Aug. 1960, p. 8
- Blight control aids. Jan. 1960, p. 16
- Breeding resistant plants. June 1960, p. 2
- Curculio, new control. June 1960, p. 15
- Fungi, can oil stop. May 1959, p. 11
- Fungicides on trial. Apr. 1961, p. 5
- Fungus, new, identified. Sept. 1960, p. 15
- Mosaic virus of sugarcane identified. Mar. 1961, p. 15
- Plant disease breakthrough. Apr. 1960, p. 3
- Rootstocks combat citrus decline. Jan. 1961, p. 15
- Virus, plant, nematode spreads. Jan. 1959, p. 14
- Viruses, plant, under new attack. Oct. 1959, p. 6
- See also individual plant

Diuron, sun decomposes. July 1960, p. 15

DNA:

- DNA, RNA advance life studies. Feb. 1961, p. 2
- DNA, salinity, and plant growth. Nov. 1960, p. 7

Dogs, improved rabies vaccine. Feb. 1961, p. 10

Dogwood grafted. Nov. 1958, p. 15

DOWCO-109. Feb. 1959, p. 15

Downy mildew, lima resists. Sept. 1959, p. 16

Downy mildew controlled. Apr. 1961, p. 5

Drainage:

- Cheaper drainage systems. May 1959, p. 16
- Plastic-lined mole drains. Jan. 1959, p. 10
- Plowed plant mat hinders drainage. Oct. 1960, p. 15

Drawing machine. Sept. 1960, p. 12

Dried foods and feeds—see Dehydration

Drip-dry for dry cleaner. July 1958, p. 6

Drying agent, tung oil superior. Nov. 1959, p. 6

Dust-placement tool. June 1960, p. 6

E

Eastern states, wasp moved to. June 1961, p. 5

Economics. Sept. 1958, p. 2; July 1959, p. 16; Jan. 1960, p. 2

Ecosystems and insects. Dec. 1958, p. 3

Eggs:

- Breeding for more eggs. Dec. 1960, p. 3
- Iron in wash water damages. May 1961, p. 13
- Laying hens, don't crowd. Nov. 1960, p. 13
- Ovulation, what controls. Oct. 1959, p. 3
- Production, too much light reduces. Oct. 1960, p. 7
- Elderly, food buying of. May 1960, p. 11

Electricity:

- Can change cotton. Dec. 1959, p. 3
- Power to Produce, 1960 Yearbook. Dec. 1960, p. 15
- Solar drying uses less electricity. May 1960, p. 14
- See also Labor saving
- EMQ stabilizes carotene. Oct. 1959, p. 15

Energy-saving kitchen. Nov. 1959, p. 8; June 1960, p. 15
 Engineering, agricultural. Aug. 1959, p. 2
 Entomology—*see* Insects
 Environment:
 Dust-placement box. June 1960, p. 6
 Heat tolerance and milk yield. Mar. 1961, p. 12
 Hogs gain faster if cool. Oct. 1959, p. 14
 Housing affects broiler growth. Apr. 1960, p. 7
 Ketosis, weather influences. Sept. 1960, p. 12
 Low-cost shelters save lambs. June 1960, p. 10
 Milk production, environment affects. Mar. 1959, p. 13
 See also Housing

Equine quarantine for African sickness. Feb. 1961, p. 15

Erosion:

 Cornfield, reducing. Feb. 1960, p. 12
 Roadbank, reducing. Apr. 1960, p. 14
 Roadbank soil loss studied. Oct. 1960, p. 15
 Sedimentation cause, effect. Sept. 1959, p. 8
 Stone removal speeds. July 1959, p. 16
 Universal equation. Mar. 1960, p. 6
 See also Runoff

Ethylene oxide, sterilant. Sept. 1959, p. 12

European corn borer. Aug. 1959, p. 16; Sept. 1959, p. 14
 (*See also* correction, Nov. 1959, p. 15)

Evaporation:

 Corn plots, evaporation high. Apr. 1960, p. 16
 Storage bag saves water. Mar. 1961, p. 6
 See also Water

Experimental plants, handling. May 1960, p. 15

F

Fabric—*see* Clothing

Fallout—*see* Radiation

Farms:

 Changing family farms. Apr. 1961, p. 3
 Fire losses dropped. May 1961, p. 15
 Foreclosures near record low. Aug. 1960, p. 16
 Helping low-income. May 1959, p. 3
 Integration studied. July 1959, p. 16; Sept. 1958, p. 2
 Land Contract Sales increase. June 1959, p. 10
 Real estate prices rise. Aug. 1960, p. 15
 Rent change. Mar. 1959, p. 12
 Tax, incorporating may save. Aug. 1959, p. 7
 Taxes up. Dec. 1960, p. 6
 Tractors share progress. Jan. 1961, p. 16

Fat:

 Fatty acid table. June 1959, p. 14
 Improves plastics. Nov. 1958, p. 12
 Meat flavors from. Jan. 1961, p. 14
 Poor electricity conductor. Sept. 1958, p. 16 (*See also* correction, Dec. 1958, p. 3)
 Selection gives lean, fat hog. Sept. 1958, p. 3 (*See also* correction, Dec. 1958, p. 16)

Federal meat inspection, C. H. Pals, heads. Oct. 1960, p. 15

Feed:

 Beta-carotene process. June 1961, p. 12
 Calves, choosing roughage. June 1959, p. 11
 Cooked garbage, good hog feed. July 1960, p. 11
 Fast-gaining steers save feed. Feb. 1961, p. 10

Feed—Continued

 Hay wafering. Apr. 1960, p. 6

 Lard-fed turkeys make good eating. Nov. 1958, p. 14

 Lean hogs from high-fiber, low-energy ration. Aug. 1960, p. 10

 Tung feedstuffs. Aug. 1958, p. 16

See also individual animal

Feed handling:

 Automatic bin unloader. Oct. 1958, p. 8

 Automatic poultry feed handling. June 1960, p. 8

Feedlot bloat findings. Nov. 1959, p. 14

Feed storage—*see* Silo; Silage

Fellowships for young scientists. Jan. 1961, p. 15

Felts, better way to make. Nov. 1960, p. 16

Fern Valley at Arboretum. Aug. 1960, p. 16

Fertilizer:

 Advances. July 1958, p. 2

 And bermudagrass winterkill. Dec. 1959, p. 15

 Fertilized range plants drink deep. May 1961, p. 10

 For listed corn. Oct. 1959, p. 11

 Gypsum for sulfur-deficient soils. June 1960, p. 7

 Liming. July 1959, p. 6; Jan. 1960, p. 5

 More nitrogen, less lime: wasted fertilizer. Jan. 1960, p. 5

 Nitrogen, efficient use of. July 1960, p. 7

 Nitrogen increases Napier grass. Nov. 1958, p. 7

 Nitrogen increases oats. Aug. 1958, p. 15

 Oranges, excess nitrogen no help. Sept. 1958, p. 6

 Potassium deficiency, grape-disease cause. Sept. 1960, p. 6

 Subsoil, fertilizer reclaims. Mar. 1961, p. 7

 Tung costs, cutting. Feb. 1960, p. 12

Fescue palatability pretested. Aug. 1960, p. 12

Fire:

 Cost to farmers. June 1959, p. 16

 Explosive sterilant made safe. Sept. 1959, p. 12

 Fire-resistant fabric recipe. Oct. 1958, p. 10

 Forest fire research. Oct. 1958, p. 7

 Forest fires, retarding. July 1960, p. 15

 Losses dropped in 1960. May 1961, p. 15

 Prevention. Oct. 1958, p. 10

Fire ant, better controls. June 1959, p. 6

Flame cultivation for cotton. Aug. 1959, p. 15

Flavor:

 Apple flavor rated. Feb. 1960, p. 8

 Broccoli, flavor of cooked. June 1960, p. 14

 Meat flavor from fat. Jan. 1961, p. 14

Flax:

 Disease-resistance clue found. Apr. 1960, p. 3

 Genetic studies of flax. Nov. 1960, p. 6

 Rust-resistant flax sought. Mar. 1961, p. 10

Floc in sirups, preventing. Mar. 1959, p. 14

Florida sand fly. Mar. 1959, p. 15

Flour:

 Cookie test. Dec. 1959, p. 5

 Milling and amino acid content. July 1959, p. 15

Flowers:

 Azaleas, salt injures. May 1961, p. 12

 Camellias, salt injures. May 1961, p. 12

 Chrysanthemums, regulating growth. May 1959, p. 14

 Flowers, compact. July 1958, p. 15

 Lilies, systemics keep aphids off. May 1961, p. 15

Flowers—Continued

- Petunia, better formed. July 1959, p. 14
- Rose spot, phaltan, cyprex curb. July 1959, p. 16
- Flume measures runoff. Nov. 1960, p. 8

Fly:

- Face fly control. Mar. 1961, p. 5; Dec. 1960, p. 5
- Fruit fly. Feb. 1959, p. 7; Mar. 1960, p. 8
- Mediterranean fruit fly. Feb. 1959, p. 3

Foam-mat drying. Dec. 1959, p. 8; Dec. 1960, p. 11

Food:

- Buyer shapes food research. Nov. 1958, p. 2
- Buying habits of elderly. May 1960, p. 11
- Chemicals and food. Mar. 1960, p. 2
- Consumption, family food. Sept. 1960, p. 15
- Cookie tester rates wheat. Dec. 1959, p. 5
- Diet aids, USDA publishes two. Jan. 1961, p. 14
- Enough food in 1975. Feb. 1961, p. 3
- Family food patterns. Sept. 1960, p. 15
- Food*, 1959 Yearbook of Agriculture. Nov. 1959, p. 10
- Future food needs. Oct. 1959, p. 2
- Infants' linoleic acid needs. July 1959, p. 13
- Meeting world needs. Aug. 1960, p. 2
- Nutrition studies aid hunger attack. Mar. 1961, p. 2
- Processing, more in food. Sept. 1960, p. 14
- Research emphasis on food recommended. June 1960, p. 15
- Research promotes general welfare. Apr. 1959, p. 3
- Salad dressing, improved. Nov. 1960, p. 15
- Thiamine needs of teen boys. June 1959, p. 16
- U.S. diets changing. Aug. 1959, p. 12

Food, frozen—see Freezing

Foot-and-mouth virus resists heat. June 1960, p. 16

Forage:

- Bruised-forage silage. Dec. 1959, p. 16
- Forage-nursery weed control. Oct. 1960, p. 13
- Forage seed for other countries. May 1961, p. 11
- Mountain meadow management. Feb. 1959, p. 16
- Root growth, moisture affects. Sept. 1960, p. 10
- Water spreading, increases forage. June 1960, p. 11
- See also individual forage crops

Foreclosures, farm, record low. Aug. 1960, p. 16

Foreign aid—see Research, foreign.

Foreign markets:

- Japan, soybean market. Mar. 1960, p. 5

Foreign pests, barring. June 1961, p. 8

See also Quarantine

Forest:

- Fire research. Oct. 1958, p. 7
- Fires, retarding. July 1960, p. 15
- Grazing bad for hardwoods. July 1958, p. 14
- Logs, gelatinous fibers split. Nov. 1960, p. 15
- Publication planned. Nov. 1958, p. 14
- Strip-cutting increases water yield. Apr. 1961, p. 12
- Timber quality research. Jan. 1960, p. 11
- Tree type, management affects runoff. Aug. 1960, p. 14
- Trees, culling. May 1959, p. 12
- Trees restore strip-mined land. Sept. 1960, p. 13
- See also Trees

Foulbrood antibiotics. May 1961, p. 14

Fowl cholera vaccines promising. Sept. 1958, p. 5

Freezing:

- Ducks and geese, frozen. July 1960, p. 15
- Freezer temperatures affect. Aug. 1958, p. 15
- Poultry, tender, frozen. Nov. 1958, p. 16
- Stabilizing guacamole for freezing. Nov. 1958, p. 16
- Strawberries, frozen, telltale change. Dec. 1958, p. 10

Fruit:

- Cochran heads fruit research. May 1959, p. 15
- Co-ops aid growers. Mar. 1959, p. 4
- Dehydrator accepted commercially. Jan. 1959, p. 15
- Fruit size control progress. Mar. 1960, p. 7
- Utilization laboratory, fruit. Jan. 1959, p. 16
- See also Citrus; trees, fruit; individual fruit

Fruit fly and space travel. Feb. 1959, p. 7

Fruit fly control. Mar. 1960, p. 8

Fruit fly, Mediterranean. Feb. 1959, p. 3

Fruit trees—see Trees, fruit

Fungicides:

- Curb rose black spot. July 1959, p. 16
- Peanut stem rot, controlling. Apr. 1959, p. 6
- Saving cotton seedlings. Nov. 1958, p. 10
- Sesame leafspot, cylindrosporium causes. Sept. 1960, p. 15
- Soilborne disease curbs studied. Aug. 1960, p. 8
- Stopping smut in wheat. June 1960, p. 5
- Zineb fungicide controls cotton rust. June 1961, p. 11

Future food, fiber needs. Feb. 1961, p. 3

G

Gamma ray predicts wool shrinkage. Mar. 1961, p. 12

Garbage, cooked, for swine. Dec. 1959, p. 11; July 1960, p. 11

Garment—see Clothing

Genetics:

- Animal research laboratory. Oct. 1958, p. 4
- Barley, male sterile, DDT-resistant. June 1961, p. 6
- Chickens transmit cancer resistance. Nov. 1960, p. 12
- Corn plants, improving. Oct. 1960, p. 8
- Corn study shows gene changes. July 1959, p. 3
- Cytoplasm alters genetic effects. Apr. 1959, p. 5
- Dairy herds, upgrading. Jan. 1961, p. 11
- DNA, RNA findings. Feb. 1961, p. 2
- DNA, salinity, and plant growth. Nov. 1960, p. 7
- Flax improvement. Nov. 1960, p. 6
- Grain treasures, new home. Dec. 1959, p. 7
- Nutrition advances. Mar. 1961, p. 2
- Tobacco, study aids breeding. Mar. 1959, p. 10
- See also individual plants, animals

Georgia study for apple comeback. Dec. 1960, p. 7

Germination—see Seed; individual crops.

Gibberellic acid:

- Chrysanthemums. May 1959, p. 14
- Seed treatment. May 1960, p. 7

Gila safflower resists root rot. Nov. 1958, p. 15

Ginning:

- Cottonseed container timesaver. Aug. 1960, p. 5
- Rapid flight-bar. Jan. 1959, p. 7
- Roller, for long fibers. Mar. 1959, p. 5
- Temporary baling of seed cotton. Feb. 1961, p. 7

Goat fiber. Dec. 1959, p. 12

Gossypol. Apr. 1959, p. 6

Grading:

Ultrasonics measure fat, lean. Dec. 1958, p. 15

Grafted dogwood. Nov. 1958, p. 15

Grain:

Coatings from starch. Jan. 1961, p. 13

Drying crops with solar energy. May 1960, p. 14

Fungi. Sept. 1960, p. 8

Genetic pool. Dec. 1959, p. 7

Grain-insect laboratory, new. July 1960, p. 14

Grain rust spray. Apr. 1959, p. 15

Khapra beetle in Texas. July 1959, p. 15

Starch strengthens paper. May 1960, p. 13

Yellow dwarf. Dec. 1960, p. 10

See also individual grains

Grapes:

Dix, new juice grape. Apr. 1959, p. 15

Grapeleaves inhibit pickle enzymes. Dec. 1958, p. 10

Juice, superconcentrated grape. Feb. 1959, p. 16

Leafroll virus and nutrition. Sept. 1960, p. 6

Magoon, Exotic varieties. May 1959, p. 16

Nematode spreads fanleaf virus. Jan. 1959, p. 14

Grass:

Barnyard grass, herbicide controls. Jan. 1961, p. 5

Black grama's seed setting. Aug. 1959, p. 6

Bunchgrass may return. Mar. 1960, p. 16

Coastal Bermudagrass and corn. Dec. 1959, p. 15

Dalapon kills grass. Mar. 1959, p. 7

Fertilize Meyer-zoysia. Aug. 1958, p. 16

Grass growth under snow studied. Oct. 1959, p. 12

Grass vs. grasshoppers. Aug. 1958, p. 15

Grass-wheat hybrids. Nov. 1958, p. 8

Grasses after Klamath weed. Jan. 1961, p. 6

Halogeton, menace to grass. Nov. 1960, p. 16

Harvester, improved grass-seed. June 1961, p. 15

Napier grass. Nov. 1958, p. 7

Potomac orchard grass. Mar. 1959, p. 15

Rust-resistant ryegrass. Aug. 1959, p. 5

Seed losses, improved handling cuts. Jan. 1960, p. 8

Seed, mechanical analysis for chaffy. Sept. 1960, p. 7

Seeding, anchored mulch protects. Feb. 1961, p. 5

Sheep sorrel control. May 1960, p. 15

Temperature affects range seeding. Jan. 1960, p. 4

Wildrye, new, produces more seed. June 1960, p. 16

Grasshoppers:

Control urged. Apr. 1961, p. 15

Forecast. Feb. 1959, p. 15

Long-lived. Mar. 1960, p. 15

Parasites control. May 1960, p. 10

Range management. Aug. 1958, p. 15

Rotation aids control. May 1959, p. 16

Greenhouses:

Mites in. May 1961, p. 8

Thrip-proofing. Jan. 1959, p. 14

Green manure fails dryland test. Oct. 1958, p. 13

Ground covers develop farm water. Mar. 1961, p. 6

Grower co-ops, bargaining. Mar. 1959, p. 4

Growth modifiers—*see* Plant growth modifiers

Growth regulators—*see* Plant growth modifiers

Guacamole, stabilizing for freezing. Nov. 1958, p. 16

Gum, breeding pines for more. May 1960, p. 12

Gypsum for alkali spots. Apr. 1960, p. 12

Gypsy moth lure isolated. July 1960, p. 16

H

Hagan, W. A., heads Animal Disease Laboratory. Mar. 1959, p. 15

Hairy vetch, MCPA curbs. Apr. 1960, p. 11

Hall scale eradication. Sept. 1959, p. 15

Haller, H. L. J., service award. July 1960, p. 3

Halogeton. Mar. 1960, p. 14; Nov. 1960, p. 16

Handicapped homemakers' clothing. July 1960, p. 8

Handicapped, new kitchen helps. Nov. 1959, p. 8

Hardiness:

Plant hardiness map. Oct. 1960, p. 15

See also individual plants

Harvest:

Blueberry harvesting, mechanized. Oct. 1959, p. 7

Cherry harvesting easier. July 1958, p. 7

Cherry-picking machine. Jan. 1961, p. 8

Cotton, harvest time-saver. Aug. 1960, p. 5

Fruit-tree harvesting, mechanized. Feb. 1959, p. 10

Fruit-tree shaker needed. Oct. 1958, p. 6

Harvester, speedy, accurate. June 1961, p. 15

Plum-picking machine. Jan. 1961, p. 8

Potato handling, better. Sept. 1960, p. 15

Raspberry picking, lug carrier for. Dec. 1958, p. 14

Sugarcane, mechanical harvest. Dec. 1960, p. 15

Sweetclover, nonbitter white. June 1961, p. 15

Tobacco harvest bruises. Oct. 1958, p. 12

Hay:

Tapeworm, 10-week storage kills. Feb. 1960, p. 16

Wafers, making good hay. Apr. 1960, p. 6

Health, parasite laboratory protects. June 1961, p. 10

Heat Inactivation Test, brucellosis. June 1961, p. 13

Heat-pump for milk room. Mar. 1959, p. 11

Heat-resistant chocolate bars. Dec. 1958, p. 11

Hendricks, S. B., receives award. Apr. 1961, p. 16

Herbicides:

And irrigation. Apr. 1959, p. 16

Barnyard grass, chemical controls. Jan. 1961, p. 5

Culling unwanted trees. May 1959, p. 12

Dalapon kills grass. Mar. 1959, p. 7

Disposing of. Sept. 1958, p. 14

Distributing granules efficiently by plane. May 1961, p. 6

Granular form safer. Sept. 1958, p. 15

MCPA ups clover seed yield. Apr. 1960, p. 11

Simazin. Apr. 1959, p. 16

Sun decomposes. July 1960, p. 15

Surfactants affect herbicides. June 1961, p. 3

Underground spraying kills weeds. May 1960, p. 6

Waterweed control. Feb. 1959, p. 12

Heredity—*see* Genetics; individual plants, animals.

Hessian-fly resistant wheat. Nov. 1959, p. 15; Apr. 1961, p. 16

Hexachlorobenzene kills smut fungus. June 1960, p. 5

Hickory logs, why some split. Nov. 1960, p. 15

Hides:

Horsehide, new tanning improves. Nov. 1959, p. 12

Leather shrinkage, causes. July 1959, p. 10

Salt speeds hair removal. Oct. 1958, p. 3

H.I.T.—see Brucellosis
Hoblitzelle National Award. July 1960, p. 4
Hog cholera. Dec. 1959, p. 14
Hogs—see Swine
Hoja blanca. Mar. 1960, p. 3
Home Economics 9th International Congress. Oct. 1958, p. 15
Honeysuckle, low-cost control. Sept. 1958, p. 14
Hormones:
 Apples every year. Mar. 1959, p. 3
 Ovulation, hormones basis of. Oct. 1959, p. 3
Hornworms, bacterium kills. Feb. 1961, p. 15
Horsehide, new tanning improves. Nov. 1959, p. 12
 See also Hides
Housing:
 Affects broiler growth. Apr. 1960, p. 7
 Farm changes require adaptability. Aug. 1958, p. 16
 House plans released. June 1960, p. 15
 Low-cost shelters save lambs. June 1960, p. 10
 Roof truss, farm. July 1960, p. 16
 Walls, strengthening technique. Jan. 1960, p. 16
Humane slaughter. Jan. 1959, p. 11; Apr. 1960, p. 8
Husbandry, animal, forecast changes. Apr. 1961, p. 2
Hybrids—see individual plants

Incomes, improving rural. Sept. 1960, p. 3
Income tax, incorporation saves. Aug. 1959, p. 7
Index, *Agricultural Research*, published. May 1959, p. 16
Industry, farm research aids. Apr. 1960, p. 2
Insect control—see Biological control; Pest control; Pesticides
Insecticides—see Pesticides
Insects:

 Air travel and. Aug. 1958, p. 14
 Cholesterol in. Feb. 1961, p. 8
 Cottons, that starve. Nov. 1960, p. 3
 Ecosystems. Dec. 1958, p. 3
 Fruit flies in space travel. Feb. 1959, p. 7
 Hall scale may be gone. Sept. 1959, p. 15
 Insect detectives wanted. Sept. 1959, p. 14
 Pumpkin caterpillar presence confirmed. Feb. 1960, p. 15
 Red tick in Florida. Dec. 1960, p. 16
 Stress, toleration. Sept. 1960, p. 16
 See also Biological control; Pest control; Pesticides; individual insects
Inspection meat, C. H. Pals heads. Oct. 1960, p. 15
Integration, farm. Sept. 1958, p. 2; July 1959, p. 16
International Congress of Home Economics, 9th. Oct. 1958, p. 15
International Dairy Congress, 16th. Apr. 1961, p. 15
International Nutrition Congress, 5th. Dec. 1960, p. 16
Introductions, plant:

 Hull-less barley. Sept. 1959, p. 7
 New ornamentals. Dec. 1960, p. 8
 Russian plant exchange. Dec. 1959, p. 16
 Rye good for bread. May 1959, p. 15
 Ryegrass, rust-resistant. Aug. 1959, p. 5
 Turkish apricots. Sept. 1959, p. 15
Iris bulbs, amino acid in. Nov. 1959, p. 15
Iron in wash water spoils eggs. May 1961, p. 13
Irradiation—see Radiation

Irrigation:
 Early rice for irrigated areas. May 1961, p. 16
 Efficient. Mar. 1959, p. 16
 Fertilizer reclaims exposed subsoil. Mar. 1961, p. 7
 Gypsum improves alkali spots. Apr. 1960, p. 12
 Herbicides and. Apr. 1959, p. 16
 Level irrigation efficient. July 1959, p. 6
 Plastic-lined mole drains. Jan. 1960, p. 7
 Pre-fab canal liner. Jan. 1960, p. 6
 Root growth guide. Sept. 1960, p. 10
 Tobacco, irrigating. Aug. 1958, p. 3
 Water spreading improves forage. June 1960, p. 11
 Water, using brackish. Dec. 1959, p. 15

Johne's disease, improved vaccine sought. Mar. 1960, p. 13
Johnsongrass. Mar. 1961, p. 11
Juice, tomato consistency key. Apr. 1960, p. 5

Kenaf seed, plastic preserves. Oct. 1959, p. 10
Ketosis, weather influences. Sept. 1960, p. 12
Khapra beetle in Texas. July 1959, p. 15
Khapra beetle on freighter. Sept. 1959, p. 15
Khrushchev visits Beltsville. Nov. 1959, p. 16
Kitchen, energy-saving. Nov. 1959, p. 8; June 1960, p. 15
Klamath weed, range restoration problem. Jan. 1961, p. 6
Knippling, Edward F., Hoblitzelle Award. July 1960, p. 4
Knippling, Edward F., service award. July 1960, p. 3
Knitwear that fits. Aug. 1958, p. 13

Labels—see Safety

Labor-saving:

 Bin unloader, automatic. Oct. 1958, p. 8
 Blueberry harvesting, mechanized. Oct. 1959, p. 7
 Bunker silos save labor. Dec. 1958, p. 15
 Cheddar cheese process. Jan. 1959, p. 10
 Cherry harvesting. July 1958, p. 7
 Cherry picking machines. Jan. 1961, p. 8
 Cotton, cleaner. Feb. 1960, p. 10; Mar. 1960, p. 10; May 1960, p. 11
 Cotton, granular card saves. May 1959, p. 6
 Cotton, harvest timesaver. Aug. 1960, p. 5
 Cottonseed, belt cleans. Jan. 1960, p. 10
 Dairies, engineering large. Aug. 1959, p. 4
 Dairy records, mechanizing. Dec. 1958, p. 8
 Energy-saving kitchen. Nov. 1959, p. 8; June 1960, p. 15
 Fruit-tree shaker. Oct. 1958, p. 6
 Herringbone milking parlors. May 1959, p. 7
 Hog raising, automated. Oct. 1958, p. 15
 Horizontal silo, automatic unloader. Sept. 1960, p. 11
 Milk plant costs, bulk handling cuts. Aug. 1960, p. 11
 Plum-picking machine. Jan. 1961, p. 8
 Poultry farm, automated. June 1960, p. 8
 Pruning machine for fruit trees. Oct. 1960, p. 3
 Quality, better tests. May 1960, p. 8
 Raspberry picking aid. Dec. 1958, p. 14
 Seed, better ways to handle. Jan. 1960, p. 8
 Seed-potato cutter. June 1959, p. 15

Labor-saving—Continued

- Silage unloaders, small farm. Nov. 1959, p. 10
- Small tree-fruit harvesting. Feb. 1959, p. 10
- Tillage studies, computers aid. June 1961, p. 16
- Tobacco, aromatic, electric curing. Oct. 1959, p. 10
- Tractor, helping hand on. July 1959, p. 7
- Tractors. Jan. 1961, p. 16
- Tractor-sprayer controls weeds in forage nurseries. Oct. 1960, p. 13

Land contract. June 1959, p. 10

Land, 1958 Yearbook of Agriculture. Oct. 1958, p. 16

Land, trees restore strip-mined. Sept. 1960, p. 13

Land values rise. Aug. 1960, p. 15

Lard-fed turkeys taste good. Nov. 1958, p. 14

Lawns:

Fertilize Meyer-zoysia. Aug. 1958, p. 16

Sheep sorrel, controlling. May 1960, p. 16

Layout, labor-saving dairy. Aug. 1959, p. 4

Lead may cause calf deformity. June 1960, p. 12

Lean hog ration. Aug. 1960, p. 10

Lean-meter checks hog muscle. Sept. 1958, p. 3

See also correction. Dec. 1958, p. 16

Lease, share. Mar. 1959, p. 12

Leather:

Leather shrinkage. July 1959, p. 10

Salt speeds hair removal. Oct. 1958, p. 3

Tannage for better garments. Nov. 1959, p. 12

Legume:

Pasture-legume bloat. Nov. 1959, p. 14

Seed inoculation, better. Apr. 1959, p. 16

Seed losses, cutting. Jan. 1960, p. 8

See also Forage; individual legume crop

Lettuce, new varieties. July 1958, p. 15; Mar. 1960, p. 16

Light:

Air movement, photosynthesis linked. Feb. 1961, p. 6

Blacklight lures chafer beetle. Jan. 1959, p. 15

Effect on plants. June 1959, p. 3; July 1959, p. 14; Apr. 1960, p. 15

Phytochrome. Apr. 1960, p. 15

Plant development, light controls. Nov. 1959, p. 3

Quality, better ways to test. May 1960, p. 8

Ultraviolet decomposes herbicides. July 1960, p. 15

Young hens can get too much. Oct. 1960, p. 7

Lilies, systemics keep aphids off. May 1961, p. 15

Lima beans, controlling lygus on. Sept. 1958, p. 16

Lima beans, new mildew-resistant. Sept. 1959, p. 16

Liming boosts pecan crop. July 1959, p. 6

Liming ups nitrogen use. Jan. 1960, p. 5

Linoleic acid, infants' need. July 1959, p. 13

Linseed oil:

Coating material. Sept. 1959, p. 5

Oil-in-water paints. Jan. 1961, p. 12

Livestock:

Bayer 21/199 systemic. Sept. 1958, p. 15

Brucellosis eradication—see Brucellosis

Coccidiosis, progress against. Apr. 1961, p. 6

Genetics laboratory. Oct. 1958, p. 4

Humane slaughter. Jan. 1959, p. 11; Apr. 1960, p. 8

Inspection and quarantine protects. June 1961, p. 8

Research and regulation. Nov. 1960, p. 2

Livestock—Continued

Roundworms, resting pasture reduces. Jan. 1959, p. 11

Screwworms on Florida animals. Aug. 1959, p. 15

Share lease change. Mar. 1959, p. 12

Spectacular changes ahead. Apr. 1961, p. 2

Ultrasonics select livestock. Dec. 1958, p. 15

See also Quarantine, animal; individual animal

Living level, new gage. Mar. 1961, p. 14

Lodge-resistant, semi-dwarf wheat. Aug. 1959, p. 3

Logs, gelatinous fibers split. Nov. 1960, p. 15

Long-staple cotton—see Cotton

Longwood Foundation introductions. Dec. 1960, p. 8

Louisiana range evaluated. Mar. 1959, p. 15

Low-income farmers. May 1959, p. 3

Lumber:

Logs, gelatinous fibers split. Nov. 1960, p. 15

Quality guide needed. Jan. 1960, p. 11

See also Forest

Lupine may cause calf deformity. June 1960, p. 12

Lygus bugs, controlling. Sept. 1958, p. 16

Mc

McCardle, R. E., awarded. Apr. 1961, p. 16

M

Macaroni, new wheats for. Apr. 1961, p. 8

Machines—See Automation

Madeira roach, space aid. May 1961, p. 13

Magnesium needs of calves. July 1959, p. 12

Malaria mosquito control. Jan. 1959, p. 15

Manganese mulches keep from corn. Feb. 1961, p. 13

Maple tapholes, pellets protect. Feb. 1961, p. 16

Markets and marketing:

Cattle bruises cut profits. Nov. 1959, p. 13

Flakes, sweetpotato. July 1960, p. 5

Food dollar, more into processing. Sept. 1960, p. 14

Japan, soybean market. Mar. 1960, p. 5

Pricing feeder cattle. Feb. 1961, p. 10

Quality, better ways to test. May 1960, p. 8

Ultrasonics in livestock marketing. Dec. 1958, p. 15

See also Utilization; Quality testing

Mat, plant, may hinder drainage. Oct. 1960, p. 15

Maturity-testing cotton. June 1961, p. 7

Mayer, Dr. Jean, lecture. Mar. 1961, p. 2

Measurements, changing heights and weights. Nov. 1960, p. 11

Meat:

Beef cooking methods. Jan. 1960, p. 13

Bruising cuts cattle profits. Nov. 1959, p. 13

Demand growing; research needed. Nov. 1960, p. 2

Flavors from fat. Jan. 1961, p. 14

Inspectors study atomic monitoring. Jan. 1959, p. 15

Lean hogs bred selectively. May 1960, p. 3

Pork quality guide. Sept. 1959, p. 13

Production efficiency, increased. Sept. 1959, p. 3; July 1960, p. 2

Quality, better ways to test. May 1960, p. 8

Sausages. Aug. 1959, p. 15

Tenderness testing. Feb. 1960, p. 6

Meat inspection, Federal, C. H. Pals heads. Oct. 1960, p. 15

Mechanization—see Labor saving

Mesquite:

Control. Oct. 1958, p. 15; Nov. 1960, p. 5

Grubbing may pay. Dec. 1958, p. 12

Metal coating from soybeans. Sept. 1959, p. 5

Methoxychlor curbs bee parasite. Aug. 1958, p. 8

Mexico, blight-resistant potato for. Aug. 1960, p. 13

Meyer-zoysia needs fertilizer. Aug. 1958, p. 16

Micronaire checks cotton fiber maturity. June 1961, p. 7

Microscope, machine drawings from. Sept. 1960, p. 12

Milk:

Bacterial cheese starter, protecting. July 1959, p. 11

Beta-lactoglobulin, milk protein. Dec. 1959, p. 10

Bulk handling cuts costs. Aug. 1960, p. 11

Cool milk, use the heat. Mar. 1959, p. 11

Dairy Congress. Apr. 1961, p. 15

Dairy type vs. production. Mar. 1961, p. 13

Dried whole milk nearer. Nov. 1958, p. 3

Dry milk for bread-making. July 1958, p. 10

Flavor, feed study. Aug. 1959, p. 15

Heat tolerance and milk yield. Mar. 1961, p. 12

Production records pay. Oct. 1960, p. 5

Proteins, mill. Apr. 1959, p. 10

Proved sires' daughters give more. Jan. 1961, p. 11

Strontium 90 removal not needed now. Nov. 1959, p. 15

See also Cattle, dairy; Dairy

Millet:

Dairy pasture, millets evaluated for. Aug. 1960, p. 7

GAHI-1 variety. July 1958, p. 11

Millet hybrids from dwarf plants. May 1960, p. 5

Minerals:

Affect bermudagrass kill. Dec. 1959, p. 15

Geography affects, in vegetables. Jan. 1960, p. 15

Soil minerals affect plants. Apr. 1960, p. 12

Mining: trees restore stripped land. Sept. 1960, p. 13

Mink:

Antioxidants prevent disease. July 1960, p. 10

Nutrition vital. Dec. 1960, p. 14

Mint, wilt-resistance test. Apr. 1961, p. 11

Mites:

Apple tree mites curbed. Dec. 1959, p. 16

Predators against. May 1961, p. 8

Moapa alfalfa resists aphid. Apr. 1961, p. 13

Moisture:

Affects root growth. Sept. 1960, p. 10

Seed moisture content, testing. Aug. 1958, p. 14

Strip cropping saves. Jan. 1961, p. 7

Montana certifies feeder. Apr. 1959, p. 12

Montana studies green manure. Oct. 1958, p. 13

Monuron decomposed by arid-area sun. July 1960, p. 15

Mormon cricket control urged. Apr. 1961, p. 15

Mosquitoes:

Attractant. May 1961, p. 7

In planes, aerosol kills. Feb. 1961, p. 14

Radiation as eradication aid. Jan. 1959, p. 15

Repellents. July 1959, p. 8

Mountain meadows. Feb. 1959, p. 16

Mulch:

Anchoring protects soil better. Feb. 1961, p. 5

Keeps manganese from corn. Feb. 1961, p. 13

Reduces roadside erosion. Apr. 1960, p. 14

Mutations:

Quantitative traits of corn vary. Oct. 1960, p. 8

Rice mutant favorable. Sept. 1958, p. 13

N

Naphthaleneacetic acid (NAA). Mar. 1959, p. 3

Naphthylacetamide (NAAmide). Mar. 1959, p. 3

Napier grass, managing. Nov. 1958, p. 7

National Arboretum, Fern Valley. Aug. 1960, p. 16

National Seed Storage Laboratory. Aug. 1958, p. 16; Jan. 1959, p. 16

Nautilus crew liked USDA juices. Feb. 1959, p. 16

Naval stores—see Resin

NC-73 tobacco resists black-shank. May 1959, p. 16

Nectar, cotton with less. Nov. 1960, p. 3

Nematodes:

Citrus and burrowing. June 1959, p. 12

Dagger nematode carries virus. Jan. 1959, p. 14

DBCP controls. June 1959, p. 12

Fungus kills. Nov. 1960, p. 11

Meadow nematodes hurt peanuts. July 1958, p. 12

NC-95 tobacco resists root knot. Feb. 1961, p. 15

Radiation, nematode resists. Sept. 1958, p. 14

Resistant alfalfa. Aug. 1959, p. 15

Resistant citrus root stock found. Jan. 1961, p. 15

Resistant citrus sought. Sept. 1958, p. 7

Resistant sugarbeets coming. June 1960, p. 3

Root-knot on cotton controlled. Sept. 1959, p. 6

Soybean cyst nematode. Dec. 1959, p. 15

Soybean cyst nematode, plane hunts. Sept. 1959, p. 16

Soybeans, breeding nematode-resistant. July 1960, p. 12

Sugar kills nematodes. Mar. 1961, p. 3

New Hampshire brucellosis-free. Aug. 1960, p. 11

Newton, R. C., coordinates utilization work. May 1960, p. 15

Niacin in corn. Nov. 1960, p. 14

1975 demand, meeting. Feb. 1961, p. 3

1975 family farms. Apr. 1961, p. 3

Nitrate ions and soil acidity. Oct. 1960, p. 16

Nitrogen:

Detergent extracts. Sept. 1959, p. 15

Effluent use. July 1960, p. 7

Increases napier grass. Nov. 1958, p. 7

Increases oats. Aug. 1958, p. 15

In package, saves flavor. July 1960, p. 4

Liming promotes use. Jan. 1960, p. 5

Nitrate ions and soil acidity. Oct. 1960, p. 16

Oranges, excess nitrogen won't help. Sept. 1958, p. 6

Northwest, bean industry. Apr. 1960, p. 11

Nut:

Almonds fit today's needs. Aug. 1959, p. 14

Hall scale eradicated. Sept. 1959, p. 15

Pecans, liming boosts crop. July 1959, p. 6

Walnuts, antioxidants preserve. Aug. 1958, p. 6

Nutgrass eradication. Oct. 1958, p. 15

Nut research, L. C. Cochran heads. May 1959, p. 15

Nutrition:

Food, 1959 Yearbook of Agriculture. Nov. 1959, p. 10

Nutrition—Continued

International Congress, 5th. Dec. 1960, p. 16

See also Nutrition—animal, human, or plant

Nutrition, animal:

Hay wafers. Apr. 1960, p. 6

Tung feedstuffs. Aug. 1958, p. 16

See also individual animals

Nutrition, human:

Buyer shapes food research. Nov. 1958, p. 2

Buying habits of elderly. May 1960, p. 11

Chemicals and food. Mar. 1960, p. 2

Consumption, family food. Sept. 1960, p. 15

Cookie tester rates wheat. Dec. 1959, p. 5

Diet planning aids. Jan. 1961, p. 14

Family food pattern. Sept. 1960, p. 15

Fatty acid table. June 1959, p. 14

Fewer calories, more variety. Aug. 1959, p. 12

Food, 1959 Yearbook of Agriculture. Nov. 1959, p. 10

Future food needs. Oct. 1959, p. 2

H. K. Steibeling, woman nutritionist. Apr. 1959, p. 3

Infants' linoleic acid needs. July 1959, p. 13

Processing, buying more food. Sept. 1960, p. 14

Research clue to meeting world needs. Aug. 1960, p. 2

Studies aid hunger attack. Mar. 1961, p. 2

Thiamine needs of teen boys. June 1959, p. 16

U.S. diets changing. Aug. 1959, p. 12

Nutrition, plant:

Grape-virus damage, nutrition linked. Sept. 1960, p. 6

Mulches keep manganese from corn. Feb. 1961, p. 13

See also Fertilizer



Oats:

Hardier winter oats. Jan. 1961, p. 3

New red variety. Jan. 1960, p. 15

New spring variety. Mar. 1961, p. 15

Nitrogen, oats respond to. Aug. 1958, p. 15

Rust-resistant. July 1958, p. 15; July 1960, p. 6

Obesity and disease. Mar. 1961, p. 2

Oil and oil crops:

Cottonseed oil, better bleached. Feb. 1961, p. 16

Flax. Nov. 1960, p. 6

Flax, disease-resistance clue. Apr. 1960, p. 3

Flaxes, rust-resistant. Mar. 1961, p. 10

Linseed oil coating. Sept. 1959, p. 5

Linseed oil-in-water paint. Jan. 1961, p. 12

Oil stops plant fungi. May 1959, p. 11

Safflower oil salad dressing. Nov. 1960, p. 15

Safflower variety, new. Nov. 1958, p. 15; May 1960, p. 15

Sesame seed, fungus identified. Sept. 1960, p. 15

Sesame seed treatment. May 1959, p. 10; June 1959, p. 10

Tung oil, cutting fertilizer costs. Feb. 1960, p. 13

Tung oil, feedstuffs sought. Aug. 1958, p. 16

Tung oil, superior drying agent. Nov. 1959, p. 6

Onions:

CDEC controls weeds. Apr. 1959, p. 16

Keeping hybrid seed pure. Feb. 1959, p. 8

Orange:

Excess nitrogen no help. Sept. 1958, p. 6

Orange juice powder liked. Feb. 1959, p. 16

See also Citrus

Ornamentals:

Introduced ornamentals. Dec. 1960, p. 8

Plant Hardiness Zone Map for ornamentals. Oct. 1960, p. 15

See also Flowers.

Ozone injures tobacco. Mar. 1959, p. 8

P

Packaging:

Commercial plastic for freezer. July 1960, p. 15

Seeds. Oct. 1959, p. 10

Walnuts. Aug. 1958, p. 6

Paint, linseed oil-in-water. Jan. 1961, p. 12

Pals, C. H., heads Meat Inspection. Oct. 1960, p. 15

Paper:

Linters. Sept. 1958, p. 10

Starch, grain sorghum, strengthens. May 1960, p. 13

Wheat strengthens. Jan. 1961, p. 12

Parasites:

Bomblyiid (bee fly). Aug. 1958, p. 8

Calves, diets and parasites. Aug. 1959, p. 11

Calves, fewer worms in milk-fed. Aug. 1958, p. 11

Cane borer, parasites control. Jan. 1959, p. 6

Coccidiosis—*see* Coccidiosis

Grasshoppers, parasites control. May 1960, p. 10

Insects and ecosystems. Dec. 1958, p. 3

Laboratory. June 1961, p. 10

Meat production, parasite curb. Sept. 1959, p. 4

Nematode spreads plant virus. Jan. 1959, p. 14

Roundworm control. Jan. 1959, p. 11

Systemic, Bayer 21/199, okayed for animals. Sept. 1958, p. 15

Tapeworm, 10-week hay storage kills. Feb. 1960, p. 16

See also individual plant, animal, parasite

Parthenogenesis:

Chicken-turkey hybrid produced. Jan. 1961, p. 10

Fatherless turkeys are sires. May 1959, p. 15

Paste from wheat. Oct. 1959, p. 15

Pasture:

Dual-purpose. Nov. 1958, p. 11

Roundworms, reducing. Jan. 1959, p. 11

Wildrye, new, more seed. June 1960, p. 16

See also Alfalfa; Clover; Forage; Grass

Peaches:

Curculio, new control. June 1960, p. 15

Peachtree borer, DDT combats. May 1961, p. 15

Peanuts:

Controlling stem rot. Apr. 1959, p. 7

Meadow nematodes injure. July 1958, p. 12

Pears:

Pear decline studied. Oct. 1960, p. 14

Varieties, Magness, Moonglow, Dawn. Sept. 1960, p. 16

Peas, new virus in. Sept. 1958, p. 6

Pecan yields, limiting boosts. July 1959, p. 6

Peppermint, wilt-resistant test. Apr. 1961, p. 11

Performance testing beef cattle. July 1960, p. 2

Pest control:

- Aerosol kills insects in planes. Feb. 1961, p. 14
- Haller, H. L. J., honored. July 1960, p. 3
- Insect cholesterol. Feb. 1961, p. 8
- Insecticide handbook revised. May 1961, p. 16
- Insecticide, repellent, attractant. Feb. 1959, p. 3
- Insects and ecosystems. Dec. 1958, p. 3
- Knipling, Edward F., honored. July 1960, p. 3
- Mosquito attractants. May 1961, p. 7
- Mosquito repellents. July 1959, p. 8
- New pests, public asked to detect. Sept. 1959, p. 14
(See also correction. Nov. 1959, p. 15)
- Pest controls tightened. Jan. 1959, p. 16
- Pests, air travel affects. Aug. 1958, p. 14
- Radio waves that kill. Aug. 1959, p. 15
- Seaway complicates control problem. Sept. 1959, p. 15
- Soilborne disease curbs studied. Aug. 1960, p. 8
- Termite, drydock fumigated to stop. Oct. 1959, p. 15
- U.S. helps abroad with pest control. Sept. 1958, p. 8
- See also Biological Control; Insects; Quarantine; Weed control; individual pests, plants, animals

Pesticides:

- Aerosols kill insects in planes. Feb. 1961, p. 14
- Aphids, thimet fumes kill. July 1959, p. 15
- Blossom thinner and insecticide. May 1961, p. 3
- Chrysanthemumate, 6-chlorpiperonyl. Feb. 1959, p. 3
- DBCP controls nematode. June 1959, p. 12
- Face fly control. Mar. 1961, p. 5
- Grain rust spray. Apr. 1959, p. 15
- Insecticide handbook, revised. May 1961, p. 16
- Livestock systemic, Bayer 21/199. Sept. 1958, p. 15
- New sprayer duster. Feb. 1959, p. 11
- Peach borer. May 1961, p. 15
- Pesticide granules, plane spreads. May 1961, p. 6
- Pesticide residues. Dec. 1958, p. 2; Dec. 1959, p. 2
- Systemic curbs apple-tree mites. Dec. 1959, p. 16
- Treated seed, adjust planter. Aug. 1959, p. 16
- See also Herbicides; Fungicides

Petunia, better-formed. July 1959, p. 14

Phaltan curbs rose spot. July 1959, p. 16

Philadelphia society honors Shaw. June 1959, p. 16

Phleomycin curbs snap bean rust. June 1961, p. 11

Phosfon plant-growth effect. Apr. 1961, p. 10

Photoperiodism—see Light; Plant growth modifiers

Photosynthesis:

Air movement, photosynthesis linked. Feb. 1961, p. 6

See also Light; Plant growth modifiers

Phytochrome. Apr. 1960, p. 15—see also Light

Pickling, grapeleaves promote. Dec. 1958, p. 10

Pigment, light-sensitive plant. Nov. 1959, p. 3

Pines, high-gum yielding. May 1960, p. 12

Pioneering research laboratories. July 1959, p. 16; Jan. 1961, p. 16

Plane distributes granular pesticides. May 1961, p. 6

Plant breeding—see individual plants.

Plant composition and soil. Apr. 1960, p. 12

Plant development, light affects. Nov. 1959, p. 2, 3

Plant disease—see Disease, plant

Plant exploration—see Introduction, plant

Plant growth:

Air movement, carbon dioxide and sun factors. Feb. 1961, p. 6

Moisture affects root growth. Sept. 1960, p. 11

Salinity slows. Nov. 1960, p. 7

Soil psychrometer. Nov. 1960, p. 10

Tramping doesn't damage test plants. May 1960, p. 15

Plant growth modifiers:

Air movement, carbon dioxide and sun. Feb. 1961, p. 6

Chemicals, basic studies. Apr. 1961, p. 10

CIPC stops potato sprouting. Nov. 1960, p. 15

Compact chrysanthemums. July 1958, p. 15

Gibberellin for mums. May 1959, p. 14

Light. Nov. 1959, p. 3

Phosfon. Apr. 1961, p. 10

Phosphon-D retards petunia growth. July 1959, p. 14

Salinity slows plant growth. Nov. 1960, p. 7

Plant Hardiness Zone Map issued. Oct. 1960, p. 15

Plant introductions—see Introductions, plant.

Plant quarantine—see Quarantine, plant

Plant viruses. Oct. 1959, p. 6

Planter:

Adjust for treated seed. Aug. 1959, p. 16

Places fertilizer where needed. Oct. 1959, p. 11

Planting deeper for more sugarcane. Oct. 1960, p. 12

Planting for seedling emergence. Oct. 1960, p. 10

Plant pigment is phytochrome. Apr. 1960, p. 15

Plastic:

Fats improve. Nov. 1958, p. 12

Plastic-lined mole drains. Jan. 1959, p. 10

Plastic mole drains. Jan. 1960, p. 7

Plastic seal reduces feed losses. May 1961, p. 5

Seeds bagged in. Oct. 1959, p. 10

Plowing:

Compact soil cut narrow. Apr. 1961, p. 15

Plant "mat" may hinder drainage. Oct. 1960, p. 15

Plum Island:

Foot-and-mouth virus heat-resistant. June 1960, p. 16

Rinderpest research advances. Oct. 1960, p. 6

Plums:

Machines harvest. Jan. 1961, p. 8

Plum, cherry, and sesame fungi kin. Sept. 1960, p. 15

Policy committees—see Committee, policy

Pollen, storing alfalfa. Nov. 1960, p. 16

Pollinators, antibiotics protect bee. May 1961, p. 14

Pollution, air:

Ozone hurts tobacco. Mar. 1959, p. 8

Popham, W. L., advanced. Dec. 1959, p. 15

Pork:

Quality guide. Sept. 1959, p. 13

See also Swine

Potato:

CIPC stops storage sprouting. Nov. 1960, p. 15

Handling method, better. Sept. 1960, p. 15

Haploids aid breeders. May 1959, p. 10

Improved potato granules. Aug. 1960, p. 13

New varieties released. Aug. 1960, p. 13

Potato flakes processing plants. Nov. 1958, p. 16

Potato virus test. Apr. 1959, p. 13

Precut seed practical. Jan. 1959, p. 13

Potato—Continued

- Seed-potato cutter. June 1959, p. 15
- Stones save potato soil. July 1959, p. 16
- Virus-X immunity, new source. Jan. 1960, p. 3

Poultry:

- Alfalfa feed. Aug. 1959, p. 13
- Antibiotics control coccidiosis. Dec. 1958, p. 7; *See also* correction. Apr. 1959, p. 16
- Automated poultry farm. June 1960, p. 8
- Brooder heat control. Jan. 1959, p. 12
- Cancer Society supports study. Nov. 1959, p. 11
- Chicken-turkey hybrid. Jan. 1961, p. 10
- Eggs, more from research. Dec. 1960, p. 3
- Fatherless males are sires. May 1959, p. 15
- Fowl cholera vaccines. Sept. 1958, p. 5
- Frozen ducklings, geese. July 1960, p. 15
- Heat tolerance, large thyroids aid. Aug. 1958, p. 7
- Hormone effect on turkeys. Jan. 1959, p. 16
- Housing affects broiler growth. Apr. 1960, p. 7
- Iron in wash water spoils eggs. May 1961, p. 13
- Lard-fed birds taste good. Nov. 1958, p. 14
- Laying hens, don't crowd. Nov. 1960, p. 13
- Light affects. Oct. 1960, p. 7
- NPIP, NTIP changes. Dec. 1960, p. 13
- Ovulation, what controls. Oct. 1959, p. 3
- Poultry cancer. Aug. 1960, p. 3
- Tenderness in frozen birds. Nov. 1958, p. 16
- Test building at Beltsville. July 1958, p. 15

Power to Produce, 1960 Yearbook. Dec. 1960, p. 15

Predators—*see* Biological control.

Pricing feeder cattle aid. Feb. 1961, p. 10

Processing:

- Buying more. Sept. 1960, p. 14
- See also* Dehydration; Freezing; Utilization

Processors, sugarbeet-moisture test for. Nov. 1958, p. 16

Production:

- Can farmers meet 1975 demand. Feb. 1961, p. 3
- Future. Oct. 1959, p. 2

Protein:

- Analyzing plants for protein. Sept. 1959, p. 15
- Milk protein. Apr. 1959, p. 10; Dec. 1959, p. 10

Pruning fruit trees, better machine. Oct. 1960, p. 3

Public Law 480:

- Aids U.S. trade. Sept. 1958, p. 16
- Britain, Finland. Aug. 1959, p. 15
- Expanding abroad. Dec. 1958, p. 6

Q

Quality testing:

- Cell structure, apple quality key. Feb. 1960, p. 8
- Lumber, quality guide needed. Jan. 1960, p. 11
- Pork quality guide. Sept. 1959, p. 13
- Quality testing improved. May 1960, p. 8
- Rice cooking quality test. Aug. 1960, p. 6

Quarantine, animal:

- African horse sickness. Feb. 1961, p. 15
- Livestock foes. June 1961, p. 8
- Rinderpest diagnostic test. Oct. 1960, p. 6
- Screwworm quarantines, new. Nov. 1959, p. 15
- Zoos quarantined by red tick. Dec. 1960, p. 16

Quarantine, plant:

- Chafer lured by blacklight. Jan. 1959, p. 15
- Foreign pest entry. May 1961, p. 15
- Insects, jet travel affects. Aug. 1958, p. 14
- Khapra quarantine in Texas. July 1959, p. 15
- Nematode quarantines new. Nov. 1959, p. 15
- Seaway complicates quarantine. Sept. 1959, p. 15
- Soybean cyst nematode. Dec. 1959, p. 15

R

Rabies, improved vaccine. Feb. 1961, p. 10

Radiation:

- Decontaminating radioactive soil. Nov. 1958, p. 5
- Detector gages fallout. Mar. 1961, p. 16
- Dust-placement tool aids decontamination. June 1960, p. 6
- Fallout detector aids cleanup study. Mar. 1961, p. 16
- Monitoring meat. Jan. 1959, p. 15
- Mosquito control. Jan. 1959, p. 15
- Nematode, radiation useless against. Sept. 1958, p. 14
- Radioactive tracers aid pest study. July 1959, p. 8
- Reclaiming radioactive soil. Nov. 1958, p. 5
- Rice mutant. Sept. 1958, p. 13
- Runoff carries fallout. Apr. 1960, p. 16
- Screwworm control. July 1958, p. 8; Nov. 1958, p. 15; Oct. 1960, p. 15
- Sterile male technique. Dec. 1959, p. 2
- Strontium 90, removing. Nov. 1959, p. 15

Radioactive—*see* Radiation

Radiological defense team award. July 1960, p. 4

Radio waves kill stored grain pests. Aug. 1959, p. 15

Radium—*see* Radiation

Rain simulator aids research. Oct. 1958, p. 7

Range:

- Conservation. Sept. 1958, p. 5
- Fertilized range plants drink deep. May 1961, p. 10
- Klamath weed, restoring range after. Jan. 1961, p. 6
- Mesquite control. Dec. 1958, p. 12; Nov. 1960, p. 5
- Mesquite 2,4,5-T kills. Oct. 1958, p. 15
- Seeding and temperature. Jan. 1960, p. 4
- Seeding for dryland. Oct. 1958, p. 15
- Weather, adjusting range use to. Sept. 1958, p. 5
- See also* Forage; Grass

Ranier, hardy sweet cherry. Nov. 1960, p. 14

Raspberry picking aid. Dec. 1958, p. 14

See also Fruit

Real estate taxes, farm. Dec. 1960, p. 6

Recreation areas, land restored for. Sept. 1960, p. 13

Red clover, long-lived, sought. Oct. 1959, p. 8

Red tick in Florida. Dec. 1960, p. 16

Refrigeration—*see* Freezing

Registration, farm chemical. Oct. 1960, p. 2

Regulation:

- Farm chemical registration. Oct. 1960, p. 2
- Research and regulation teamed. Oct. 1958, p. 2
- Tighter pest regulations. Jan. 1959, p. 16
- See also* Quarantine

Repellents:

- Mosquito repellents. July 1959, p. 8
- Pest control tool. Feb. 1959, p. 3; Dec. 1959, p. 2

Research appointments:

Animal disease laboratory, W. A. Hagan, head. Mar. 1959, p. 15

Fruit research, L. C. Cochran heads. May 1959, p. 15

Research associateships. Jan. 1961, p. 15

Research awards—see Awards

Research, cooperatives. July 1959, p. 16; Sept. 1959, p. 2

Research, foreign:

Britain, Finland. Aug. 1959, p. 15

Disease-resistant potato for Mexico. Aug. 1960, p. 13

Expanding. Dec. 1958, p. 6

Increasing forage seed for other countries. May 1961, p. 11

Mecting world food needs. Jan. 1959, p. 2, 3

Pest control. Sept. 1958, p. 8

Public Law 480. Sept. 1958, p. 16

Research, laboratories:

Crops research. July 1960, p. 14

Entomology. July 1960, p. 14

Soil and water. Jan. 1960, p. 16; Feb. 1960, p. 15

Research, pioneering. July 1959, p. 16; Nov. 1959, p. 2; Jan. 1961, p. 6

Reservoirs, small, save water. Aug. 1959, p. 16

Residues. Dec. 1958, p. 2; Dec. 1959, p. 2

Resin, breeding pines for more. May 1960, p. 12

Resistance. Apr. 1960, p. 3; June 1960, p. 2

See also individual crop

Ribonucleic acid. Nov. 1960, p. 7; Feb. 1961, p. 2

Rice:

Chemical controls barnyard grass. Jan. 1961, p. 5

Cooking quality, test reveals. Aug. 1960, p. 6

Hoja-blanca resistance sought. Mar. 1960, p. 3

New early-maturing rice. May 1961, p. 16

Rexoro mutant matures early. Sept. 1958, p. 13

Rinderpest diagnostic test. Oct. 1960, p. 6

RNA. Nov. 1960, p. 7; Feb. 1961, p. 2

Roach, space study aid. May 1961, p. 13

Roadbank erosion, reducing. Apr. 1960, p. 14

Roadbank soil losses studies. Oct. 1960, p. 15

Roof truss for farm buildings. July 1960, p. 16

Root growth, moisture affects. Sept. 1960, p. 10

Root-rot resistant safflower. May 1960, p. 15

Root-rot resistant soybean sought. July 1960, p. 12

Roots, cottonseed damage weakens. Apr. 1960, p. 13

Rose, fungicides curb spot. July 1959, p. 16

Rotation, coastal bermuda and corn. Dec. 1959, p. 15

Rous sarcoma spread by contact. Aug. 1960, p. 3

Rugs, soil-resistant finish. May 1959, p. 15

Runoff:

Land bench saves water. Aug. 1958, p. 5

New flume measures runoff. Nov. 1960, p. 8

Rainfall simulator aids study. Oct. 1958, p. 7

Reservoirs and plant cover check. Aug. 1959, p. 16

Rubber or jute sheets catch water. Mar. 1961, p. 6

Runoff carries fallout. Apr. 1960, p. 16

Runoff prediction device. Apr. 1959, p. 8

Strip-cutting trees ups water yield. Apr. 1961, p. 12

Tree-type and forest management. Aug. 1960, p. 14

Rural development:

Aiding low-income communities. May 1959, p. 3

Rural incomes, improving. Sept. 1960, p. 3

Russia:

Khrushchev visits Beltsville. Nov. 1959, p. 16

Russian agricultural research. Jan. 1959, p. 3

U.S.-Russia plant exchange. Dec. 1959, p. 16

Rye, good bread variety. May 1959, p. 15

Ryegrass, rust-resistant. Aug. 1959, p. 5

S

Safety:

Flame-resistant fabric. Oct. 1958, p. 10

Insecticide handbook stresses. May 1961, p. 16

Pesticide residues. Dec. 1958, p. 2; Dec. 1959, p. 2

Safer farm chemicals sought. Oct. 1960, p. 2

Safflower:

Oil salad dressing. Nov. 1960, p. 15

Root-rot resistant. Nov. 1958, p. 15; May 1960, p. 15

Salad dressing. Nov. 1960, p. 15

Salinity control:

Level irrigation helps leaching. July 1959, p. 6

Salinity slows plant growth. Nov. 1960, p. 7

Salt damage in citrus curbed. Sept. 1959, p. 11

Salt speeds hide unhairing. Oct. 1958, p. 3

Sansevieria, potential cordage crop. Aug. 1958, p. 15

Saponin, effect on poultry. Aug. 1959, p. 13

S.C. 58 tobacco resists black-shank. May 1959, p. 16

Scientists, good environment for. May 1959, p. 2

Scientists, recruiting and keeping. Mar. 1959, p. 2

Screwworms:

Eradication. Aug. 1959, p. 15

Males sterilized by radiation. July 1958, p. 8

Quarantined new areas. Nov. 1958, p. 15; Nov. 1959, p. 15

Researchers Knipling, Bushland honored. July 1960, p. 4

Research on irradiated flies. Oct. 1960, p. 15

Screwworm flies found. Aug. 1959, p. 15

Screwworm shipping curbs lifted. Mar. 1960, p. 15

Sedimentation cause, effect studied. Sept. 1959, p. 8

Seed:

Forage seed for other countries, increasing. May 1961, p. 16

Gibberellic acid treatment. May 1960, p. 7

Grain breeders, genetic pool. Dec. 1959, p. 7

Grass seed harvester. June 1961, p. 15

Handling equipment improved. Jan. 1960, p. 8

Hot-weather storage, plastic bags. Oct. 1959, p. 10

Inoculation, better seed. Apr. 1959, p. 8

Moisture content testing. Aug. 1958, p. 4

National Seed Storage Laboratory. Aug. 1958, p. 16; Jan. 1959, p. 16

Seedling emergence, plant for. Oct. 1960, p. 10

Temperature affects range seeding. Jan. 1960, p. 4

Treated seed, adjust planters. Aug. 1959, p. 16

X-ray shows sugarbeet properties. Sept. 1960, p. 5

See also individual crops

Sequestrene 138 Fe (chelate). Sept. 1959, p. 11

Serendipity aids brucellosis fight. Sept. 1960, p. 2

Sesame:

Leaf spot fungus identified. Sept. 1960, p. 15

Seed treatment aids sesame. May 1959, p. 10

Sevin thins apple blossoms. May 1961, p. 3

Share lease change needed. Mar. 1959, p. 12
Shaw, B. T. June 1959, p. 16; Dec. 1960, p. 16
Sheep:

Big ewes bear big lambs. Dec. 1958, p. 16
Coccidiosis progress. Apr. 1961, p. 6
Crimp measure aids selection. Feb. 1959, p. 6
Halogeton, how to control. Mar. 1960, p. 14
Hardy strain for Southwest. July 1960, p. 10
Lamb shelters, low-cost. June 1960, p. 10
Sheepskins, new tanning method. Nov. 1959, p. 12
Tool measures, grades wool faster. Feb. 1961, p. 12
Wool growth. Dec. 1959, p. 12
Wool shrinkage, predicting. Mar. 1961, p. 12

Sheep sorrel controls. May 1960, p. 15

Shelters—see Housing

Shipping fever virus isolated. Oct. 1959, p. 15

Shrinkage in wool, predicting. Mar. 1961, p. 12

Silage:

Bruising, chopping makes better. Dec. 1959, p. 16
Filling horizontal silos. Aug. 1958, p. 10
Nonbitter white sweet clover. June 1961, p. 15
Silage unloaders, small farm. Nov. 1959, p. 10
Unwilted silage, heifers eat less. May 1960, p. 16

Silos:

Automatic unloader for horizontal. Sept. 1960, p. 11
Bunker silo cover saves feed. May 1961, p. 5
Bunker silo economical. Dec. 1958, p. 15
Bunker silo saves feed value. Feb. 1960, p. 7
Horizontal silos, filling. Aug. 1958, p. 10

Sirup:

Better maple sirup. Feb. 1961, p. 16
New cane good for sirup. Nov. 1960, p. 15
Preventing floc in sirups. Mar. 1959, p. 14

Slaughter, humane. Jan. 1959, p. 11; Apr. 1960, p. 8

Small farm silage unloader. Nov. 1959, p. 10

Smog:

Ozone injures tobacco. Mar. 1959, p. 8

Smoke, components in cigar. Sept. 1959, p. 10

Smut in wheat. June 1960, p. 5

Snow:

Strip-croppings save moisture. Jan. 1961, p. 7
Timing seed plantings. Oct. 1959, p. 12

Social Security and farmers. Feb. 1959, p. 13

Soil:

Alkali spots, eliminating. Apr. 1960, p. 12
Chelate curbs citrus salt damage. Sept. 1959, p. 11
Compaction. May 1960, p. 15
Compact soil, cut narrow. Apr. 1961, p. 15
Conservation, beginning. Dec. 1958, p. 13
Fertilizer reclaims exposed subsoil. Mar. 1961, p. 7
Halogeton growth, poor grass soil. Nov. 1960, p. 16
Ion action causes acidity. Oct. 1960, p. 16
Moisture. Mar. 1959, p. 6
Nutrients affect plant composition. Apr. 1960, p. 12
Plowed plant mat hinders drainage. Oct. 1960, p. 15
Predicting soil losses. Mar. 1960, p. 6
Radioactive soil, reclaiming. Nov. 1958, p. 5
Rain simulator. Oct. 1958, p. 7
Salinity slows plant growth. Nov. 1960, p. 7
Salt hurts azaleas, camellias. May 1961, p. 12

Soil—Continued

Soil conservation laboratory. Jan. 1960, p. 16; Feb. 1960, p. 15

Soil-packer anchors mulch. Feb. 1961, p. 5

Soil psychrometer. Nov. 1960, p. 10

Subsoiling didn't pay in cornbelt. Jan. 1960, p. 6

Surface measuring technique. Jan. 1961, p. 15

Temperature, cotton planting guide. Oct. 1960, p. 12

Treatment saves cotton. Nov. 1958, p. 10

Trees restore strip-mined land. Sept. 1960, p. 13

See also Erosion; Fertilizer

Solar energy dries crops. May 1960, p. 14

Sorghum:

Device speeds breeding. Nov. 1958, p. 6

Irrigating. Mar. 1959, p. 16

Land bench increases yield. Aug. 1958, p. 5

Sorghum strip saves snow moisture. Jan. 1961, p. 7

Starch strengthens paper. May 1960, p. 13

South, Woodard blueberry for. Mar. 1961, p. 15

Southwest, runoff measured. Nov. 1960, p. 8

Soybeans:

Coating materials. Sept. 1959, p. 5

Cyst nematode. Dec. 1959, p. 15

Cyst nematode in Virginia. Nov. 1959, p. 15

Cyst nematode resistance sought. July 1960, p. 12

Disease-resistant varieties, two. Mar. 1961, p. 15

High-yielding Shelby. Nov. 1958, p. 7

Nematode infestations, plane hunts. Sept. 1959, p. 16

New Hill variety. Sept. 1959, p. 16

New yellow-seeded Hood. Sept. 1958, p. 15

Pest-resistant soybean sought. July 1960, p. 12

Pod and leaf loss affect. July 1958, p. 13

Sales to Japan. Mar. 1960, p. 5

Seeds carry bud blight. Nov. 1959, p. 6

Tillage and beans kill nutgrass. Oct. 1958, p. 15

Space:

Insect can stand space stress. Sept. 1960, p. 16

Roach aids study. May 1961, p. 13

Space travel research. Feb. 1959, p. 7

Spider mite predators. May 1961, p. 8

Spinach:

Breeding, new line aids. Feb. 1961, p. 13

Improved lines developed. Dec. 1960, p. 12

Sprayer:

Efficient tractor-sprayer. Oct. 1960, p. 13

Mist sprayer for cotton pests. Aug. 1959, p. 8

Underground spraying. May 1960, p. 6

Squeeze-box rates sheep's wool yield. Sept. 1959, p. 15

Starch, high-amylase corn for. June 1959, p. 8

Starch strengthens paper. May 1960, p. 13

States:

Eartag system, 42 states adopt. Feb. 1960, p. 16

State research, consultants review. July 1958, p. 5

Steatitis in mink, preventing. July 1960, p. 10

Sterilant made safe. Sept. 1959, p. 12

Sterile-male insect control. July 1960, p. 4

Sterilizing male insects. Mar. 1960, p. 8

Stem rot, controlling peanut. Apr. 1959, p. 7

Stem rot resistant soybean sought. July 1960, p. 12

Stiebeling, Dr. Hazel, honored. Mar. 1959, p. 16; Apr. 1959, p. 3

Storage:

- Alfalfa pollen storage method. Nov. 1960, p. 16
- Baling cotton for temporary storage. Feb. 1961, p. 7
- Cheap way to strengthen walls. Jan. 1960, p. 16
- CIPC stops potato sprouting. Nov. 1960, p. 15
- Seeds bagged to keep. Oct. 1959, p. 10
- Walnuts, antioxidants preserve. Aug. 1958, p. 6

Strawberry:

- Midway variety. Jan. 1961, p. 15
- Quality test for frozen. Dec. 1958, p. 10

Stream pollution, wool scourer lessens. Dec. 1958, p. 16

Strip-cropping saves moisture. Jan. 1961, p. 7

Strontium 90—see Radiation

Subsoil, fertilizer reclaims irrigated. Mar. 1961, p. 7

Sugar kills nematodes. Mar. 1961, p. 3

Sugar maples:

- Pellets protect tapholes. Feb. 1961, p. 16
- See also sirups

Sugar beets:

- Curly top vector. May 1960, p. 15
- Nematode-resistant. June 1960, p. 3
- Planting for seedling emergence. Oct. 1960, p. 10
- Processing aid. Nov. 1958, p. 16
- Research aids industry. May 1961, p. 2
- Virus-resistance test. Apr. 1960, p. 15
- X-ray shows seed properties. Sept. 1960, p. 5

Sugarcane:

- Borer control studied. Oct. 1958, p. 16
- Borer, parasites curb. Jan. 1959, p. 6
- C.P. 52-48 variety for Georgia. Nov. 1960, p. 15
- Harvest at lower cost. Dec. 1960, p. 15
- Hurricane resistance. Oct. 1958, p. 14
- Preventing floc in sirups. Mar. 1959, p. 14
- Sugarcane virus identified. Mar. 1961, p. 15
- Yield, deeper planting boosts. Oct. 1960, p. 12

Sulfur-deficient soil, gypsum for. June 1960, p. 7

Surfactants affect herbicides. June 1961, p. 3

Sweet corn—see Corn

Sweetpotatoes:

- Instant. July 1960, p. 5
- Tillage, sweetpotatoes kill nutgrass. Oct. 1958, p. 15

Sweet sorghum—see Sorghum

Swine:

- Alfalfa improves carcass, slows growth. Jan. 1960, p. 13
- Automatic hog raising. Oct. 1958, p. 15
- Breeding lean. Sept. 1958, p. 3. See also correction, Dec. 1958, p. 16
- Cooked garbage good feed. Dec. 1959, p. 11; July 1960, p. 11
- Cool hogs gain faster. Oct. 1959, p. 14
- Fat, lean breeds tested. Sept. 1959, p. 13
- Hog-cholera control. Dec. 1959, p. 14
- Laboratory test for African fever. Feb. 1961, p. 11
- Lean hogs bred selectively. May 1960, p. 3
- Limited feeding efficient. Mar. 1960, p. 12
- Ration for lean hogs. Aug. 1960, p. 10
- Vesicular exanthema eradicated. Dec. 1959, p. 11

Systemics, animal:

- Bayer 21/199 okayed. Sept. 1958, p. 15
- Cattle grub systemic. Feb. 1959, p. 15

Systemics, animal—Continued

Face fly control. Mar. 1961, p. 5

May increase bruise resistance. Nov. 1959, p. 13

Systemics, plant:

- Curb apple tree mites. Dec. 1959, p. 16
- Keep aphids off lilies. May 1961, p. 15
- Thimet fumigates field. July 1959, p. 15

T

Tagging cattle for brucellosis control. May 1959, p. 8

Taller, heavier, this generation. Nov. 1960, p. 11

Tangerines, three new. Feb. 1960, p. 15

Tannage for better garments. Nov. 1959, p. 12

Tanning affects leather shrinkage. July 1959, p. 10

Tapeworm, making hay safe from. Feb. 1960, p. 16

Taste panel rates apple flavor. Feb. 1960, p. 8

See also Flavor

Taxes:

- Farm real estate taxes at new high. Dec. 1960, p. 6
- Saving farm tax. Aug. 1959, p. 7

Temperature:

- Affects plant growth. July 1959, p. 14
- Affects range seeding. Jan. 1960, p. 4
- Heat hurts clipped red clover. Oct. 1959, p. 8
- Soil temperature cotton planting cue. Oct. 1960, p. 12

Termites, drydock fumigated for. Oct. 1959, p. 15

Test plants undamaged by handling. May 1960, p. 15

Textile:

- Cotton Carding for industry. May 1959, p. 6
- SRRL carding cleaner for mill. Mar. 1960, p. 10
- See also Clothing

Thiamine, boys' diet needs. June 1959, p. 16

Thimet fumes kill. July 1959, p. 15

Thinning fruit trees. Mar. 1960, p. 7

Thrips in greenhouses. Jan. 1959, p. 14

Thyroid gland in chickens. Aug. 1958, p. 7

Tillage computers aid study. June 1961, p. 16

Timber quality research. Jan. 1960, p. 11

See also Forest

Tobacco:

- Bacterium kills budworms, hornworms. Feb. 1961, p. 15
- Binder variety, improved. May 1960, p. 16
- Breeding better tobacco. May 1959, p. 10
- Bright leaf, bulk curing. Dec. 1959, p. 6
- Cigar-filler tobaccos, new. June 1961, p. 15
- Cigar smoke analyzed. Sept. 1959, p. 10
- Disease-resistant variety, new. Mar. 1960, p. 16
- Electric curing of aromatic kinds. Oct. 1959, p. 10
- Irrigation helps. Aug. 1958, p. 3
- Leaf bruise damage. Oct. 1958, p. 12
- N.C. 95 resists root knot. Feb. 1961, p. 15
- New varieties—S.C. 58 and N.C. 73. May 1959, p. 16
- Ozone causes fleck. Mar. 1959, p. 8
- Root-knot nematode, new variety resists. Feb. 1960, p. 15

Tomatoes:

- Curly top vector. May 1960, p. 15
- Foam-mat drying of tomato juice. Dec. 1960, p. 11
- Tomato-juice consistency key. Apr. 1960, p. 5
- Tomato-juice powder. Dec. 1959, p. 8

Tractor:

- Automatic pilot for tractor. July 1959, p. 7
- Efficient tractor-sprayer. Oct. 1960, p. 13
- Tractors aid farm efficiency. Jan. 1961, p. 16

Traps, insect:

- Blacklight lures chafer beetle. Jan. 1959, p. 15
- Cotton pests, better traps for. Aug. 1959, p. 8
- Screwworms trapped. Aug. 1959, p. 15

Trees:

- Breeding pines for more gum. May 1960, p. 12
- Hall scale eradication. Sept. 1959, p. 15
- Pruning machine, better. Oct. 1960, p. 3
- Timber quality research. Jan. 1960, p. 11
- Trees, culling. May 1959, p. 12
- Type, management, affect runoff. Aug. 1960, p. 14
- See also* Forest

Trees, fruit:

- Fruit-tree shaking experiment. Oct. 1958, p. 6
- Hall scale eradication. Sept. 1959, p. 15
- Peach trees, curculio control. June 1960, p. 15
- Pruning machine, better. Oct. 1960, p. 3
- Thinning, improved fruit-tree. Mar. 1960, p. 7
- Tree-fruit harvesting. Feb. 1959, p. 10
- See also* Citrus; Fruit

Tung:

- Feedstuffs. Aug. 1958, p. 16
- Fertilizer costs, cutting. Feb. 1960, p. 13
- Tung oil, quick drying agent. Nov. 1959, p. 6

Turkeys:

- Antibiotics control coccidiosis. Dec. 1958, p. 7
- See also* correction. Apr. 1959, p. 16
- Fatherless males are sires. May 1959, p. 15
- Hormone effect on turkeys. Jan. 1959, p. 16
- Lard-fed birds taste good. Nov. 1958, p. 14
- Turkey-chicken crossed. Jan. 1961, p. 10
- See also* Poultry

2,4,5-T controls mesquite. Oct. 1958, p. 15

U

Ultrasonic livestock grader. Dec. 1958, p. 15

Underground reservoirs, recharging. Jan. 1959, p. 8

Universal Erosion Equation. Mar. 1960, p. 6

Urinary calculi treatment. June 1960, p. 13

USDA Yearbook of Agriculture—*See* Yearbook

Utilization:

- Cereal grain, new uses. May 1960, p. 13
- Chocolate. Dec. 1958, p. 11
- Coatings from starch. Jan. 1961, p. 13
- Corn, high-amylose. June 1959, p. 8
- Cornstarch uses. Jan. 1959, p. 15
- Farm products, new uses. July 1959, p. 2
- Foam-mat drying, improvements. Dec. 1960, p. 11
- Linseed paints exterior. Jan. 1961, p. 12
- Milk chemistry study awards. Apr. 1959, p. 10
- Milk, dried, whole. Nov. 1958, p. 3
- New products market study staff. Mar. 1960, p. 15
- Potatoes, instant, from flakes. July 1960, p. 5
- Potato flakes, plants for improved. Nov. 1958, p. 16
- Potato granule processing. Aug. 1960, p. 16

Utilization—Continued

- Salad dressing, improved. Nov. 1960, p. 15
- Sirups, preventing floc in. Mar. 1959, p. 14
- Soybean coating materials. Sept. 1959, p. 5
- Tomato-juice consistency key. Apr. 1960, p. 5
- Utilization work, Newton coordinates. May 1960, p. 15
- Vegetables, new way to dehydrate. June 1961, p. 15
- Wheat, new uses. Oct. 1959, p. 15
- Wheat strengthens paper. Jan. 1961, p. 12
- Yeasts, breeding better. Nov. 1959, p. 7
- See also* Cotton utilization; Leather; Wool

V

Vaccine:

- Fowl cholera vaccines. Sept. 1958, p. 5
- Hog cholera control. Dec. 1959, p. 14
- Johne's disease vaccine sought. Mar. 1960, p. 13
- Rabies vaccine for dogs. Feb. 1961, p. 10

Vegetables:

- Brackish water usable on some. Dec. 1959, p. 15
- Broccoli, cooking. June 1960, p. 15
- Cabbage resists clubroot. Feb. 1961, p. 15
- Coops aid growers. Mar. 1959, p. 4
- Dehydration, new method. June 1961, p. 15
- Dehydrator accepted commercially. Jan. 1959, p. 15
- Freezing plant aid, new. Oct. 1958, p. 5
- Mineral content varies geographically. Jan. 1960, p. 15
- Spinach. Dec. 1960, p. 12; Feb. 1961, p. 13
- Sprayer-duster. Feb. 1959, p. 11
- Tomato-juice consistency key. Apr. 1960, p. 5
- Utilization laboratory. Jan. 1959, p. 16

Vesicular exanthema:

- Cooked garbage good hog feed. Dec. 1959, p. 15; July 1960, p. 11
- Vesicular exanthema eradicated. Dec. 1959, p. 11

Virus:

- Curly top. May 1960, p. 15
- Curly top, sugarbeet resistance test. Apr. 1960, p. 15
- Foot-and-mouth virus resists heat. June 1960, p. 16
- Grape-virus damage, nutrition link. Sept. 1960, p. 6
- Hoja blanca. Mar. 1960, p. 3
- Nematode spreads. Jan. 1959, p. 14
- Poultry cancer, virus cause. Aug. 1960, p. 3
- Southern bean mosaic virus. Sept. 1958, p. 11
- Sugarcane mosaic virus identified. Mar. 1961, p. 15
- Tobacco streak virus in peas. Sept. 1958, p. 6
- TRSV (bud blight) virus in seed. Nov. 1959, p. 6
- Under new attack. Oct. 1960, p. 6
- Virus-X immunity in potatoes. Jan. 1960, p. 3
- Yellow dwarf. Dec. 1960, p. 10

Vitamins:

- Alfalfa carotene, stabilizing. Oct. 1959, p. 15
- Feeds, new Vitamin-A source. June 1961, p. 12
- Niacin bound in corn. Nov. 1960, p. 14

W

Wafers, making good hay. Apr. 1960, p. 6

Walls, cheap way to strengthen. Jan. 1960, p. 16

Walnuts, antioxidant preserves. Aug. 1958, p. 6

Washington station, new beans at. Apr. 1960, p. 11
Wasp vs. alfalfa weevil. June 1961, p. 5
Water:
 Brackish water usable. Dec. 1959, p. 15
 Evaporation losses high. Apr. 1960, p. 16
 Strip cropping for extra moisture. Jan. 1961, p. 7
 Strip-cutting ups forest yield. Apr. 1961, p. 12
 Water spreading improves forage. June 1960, p. 11
 See also Conservation; Irrigation; Runoff; Soil; Water Management
Water belly. June 1960, p. 13
Water conservation—see Conservation
Water management:
 Land bench saves water. Aug. 1958, p. 5
 Research in water management. June 1961, p. 2
 Root growth studies irrigation aid. Sept. 1960, p. 10
 Runoff, new flumes measure. Nov. 1960, p. 8
 Saving floodwater. Aug. 1959, p. 16
 Soil acidity, water not cause. Oct. 1960, p. 16
 Soil psychrometer aids research. Nov. 1960, p. 10
 Trees restore strip-mined land. Sept. 1960, p. 13
Watershed management:
 Soil psychrometer aids research. Nov. 1960, p. 10
Water source, potential dry land. Mar. 1961, p. 6
Waterweed control. Feb. 1959, p. 12; Apr. 1960, p. 10
Weather:
 Adjusting range use to. Sept. 1958, p. 5
 Influences ketosis. Sept. 1960, p. 12
 Plant hardiness map. Oct. 1960, p. 15
 See also Environment
Weeds:
 Automatic tractor pilot helps control. July 1959, p. 7
 Beetle kills Klamath weed. Sept. 1958, p. 15
 Cotton weeds, better flaming curbs. Aug. 1959, p. 15
 Culling unwanted trees. May 1959, p. 12
 Halogeton menaces grass. Nov. 1960, p. 16
 Halogeton, progress in control. Mar. 1960, p. 14
 High-yield corn, weed killers for. Oct. 1958, p. 16
 Johnsongrass. Mar. 1961, p. 11
 Mesquite control. Oct. 1958, p. 15; Nov. 1960, p. 5
 Mesquite, grubbing may pay. Dec. 1958, p. 12
 Moth controls tansy ragwort. Jan. 1960, p. 12
 Nutgrass, till and smother. Oct. 1958, p. 15
 Sheep sorrel controls. May 1960, p. 15
 Tractor-sprayer for nurseries. Oct. 1960, p. 13
 Waterweed control. Feb. 1959, p. 12; Apr. 1960, p. 10
 Witchweed control. Dec. 1958, p. 15; Oct. 1960, p. 11; Apr. 1961, p. 14
 Witchweed eradication program. Aug. 1960, p. 15
 See also Herbicides
Weight, food and you. Jan. 1961, p. 14
Wheat:
 Cookie tester rates. Dec. 1959, p. 5
 Deep-furrow planting. Oct. 1958, p. 13
 Gibberellic acid seed treatment. May 1960, p. 7
 Green manure, no dryland growing aid. Oct. 1958, p. 13
 Hessian-fly resistant. Nov. 1959, p. 15; Apr. 1961, p. 16
 Holds quality well. Feb. 1959, p. 15
 Improved wheats for Northwest, two. Nov. 1958, p. 15

Wheat—Continued

Milling and amino acids. July 1959, p. 15
Modified flours strengthen paper. Jan. 1961, p. 12
New durum varieties. May 1960, p. 16
New uses as paste and thickener. Oct. 1959, p. 15
New varieties for 1961. Jan. 1961, p. 16
New wheats accepted. Apr. 1961, p. 8
Radio waves kill storage pests. Aug. 1959, p. 15
Sears receives award. July 1958, p. 16
Semidwarf wheat shows promise. Aug. 1959, p. 3
Smut in wheat, stopping. June 1960, p. 5
Starch strengthens paper. May 1960, p. 13
Wheat-grass crosses studied. Nov. 1958, p. 9
White-fringed beetle in Arkansas. Nov. 1959, p. 15
Wilt-resistance test, fast. Apr. 1961, p. 11
Wind-damage, some canes resist. Oct. 1958, p. 14
Witchweed:
 Eradication program. Aug. 1960, p. 15
 Fight starts. Dec. 1958, p. 15
 Germination control. Apr. 1961, p. 14
 Takes nutrients. Oct. 1960, p. 11

Wood—see Lumber, Trees

Woodland—see Forest

Wool:

Chemical improves felts. Nov. 1960, p. 16
Laboratory for better fabrics. Jan. 1960, p. 15
Scouring wool, improved method. Dec. 1958, p. 16
Shrinkage, predicting wool. Mar. 1961, p. 12
Slack creases made to last. Oct. 1960, p. 16
Squeeze box rates sheeps' productivity. Sept. 1959, p. 15
Treatment shrinkproofs wool. Dec. 1960, p. 15
Wool crimp studies. Feb. 1959, p. 6
Wool fiber measuring, faster. Feb. 1961, p. 12
Wool growth starts in fetus. Dec. 1959, p. 12
Woolens, minimum care. Apr. 1959, p. 15

World food needs, meeting. Aug. 1960, p. 2

Worms:

Fewer, in milk-fed calves. Aug. 1958, p. 11
See also Parasites
Wyoming pasture seeding studies. Nov. 1958, p. 11

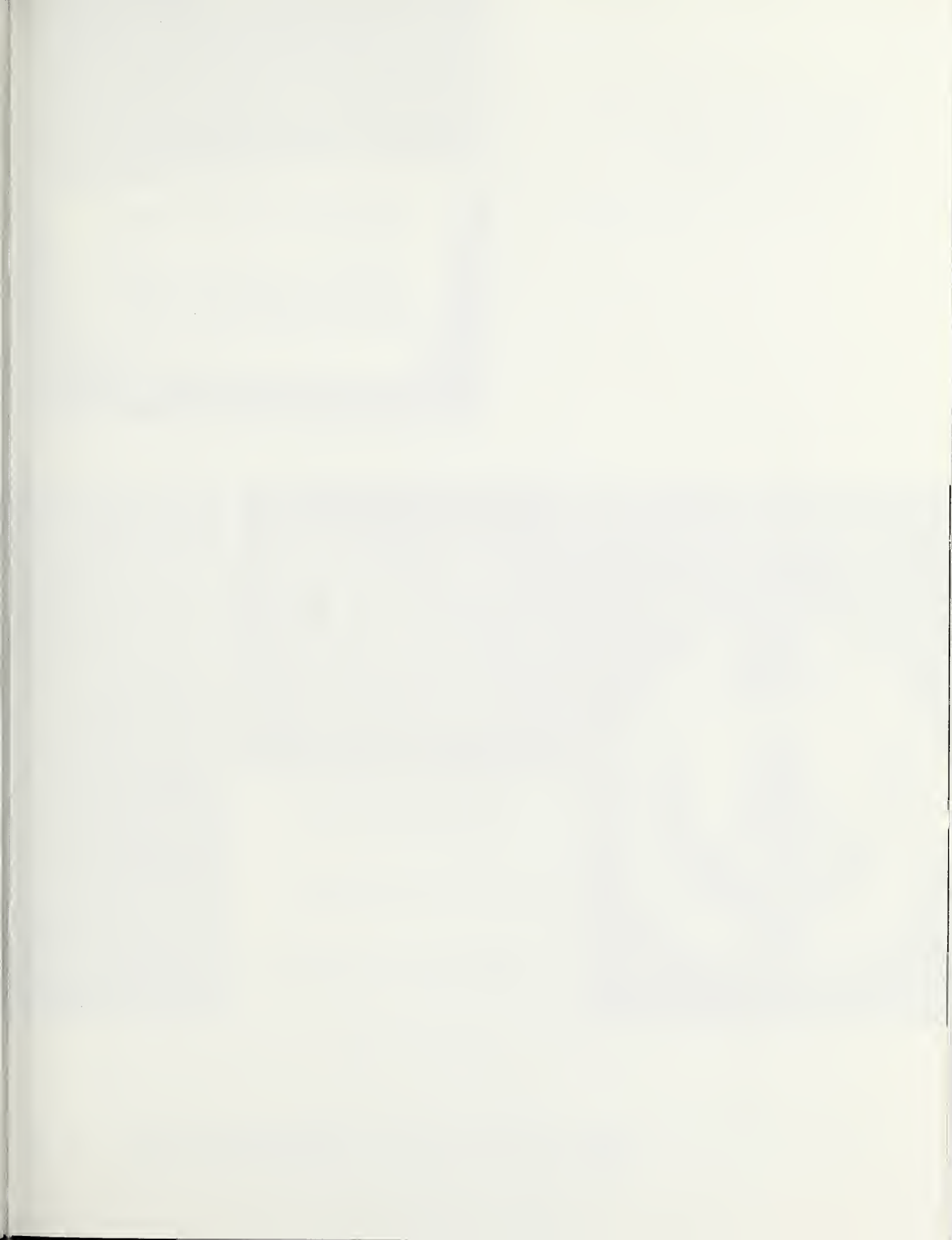
Y

Yarn, electricity strengthens cotton. Dec. 1959, p. 3
Yearbook of Agriculture, 1958, *Land*. Oct. 1958, p. 16
Yearbook of Agriculture, 1959, *Food*. Nov. 1959, p. 10
Yearbook of Agriculture, 1960, *Power to Produce*. Dec. 1960, p. 15
Yeasts, breeding better. Nov. 1959, p. 7
Yellow dwarf. Dec. 1960, p. 10
Yellow fever:
 Aerosol vs. mosquito in planes. Feb. 1961, p. 14

Z

Zittle awarded for milk study. Apr. 1959, p. 11
Zoysia, fertilize. Aug. 1958, p. 16





U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D. C. 20250

OFFICIAL BUSINESS

POSTAGE AND FEE PAID
U.S. DEPARTMENT OF AGRICULTURE